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PROGETTO
BANCA DIS.
TIPICO

ANOPC — T.EN TECHNIP ENERGIES

PROJ.: ASSIUT HYDROCRACKING COMPLEX
OWNER: ASSIUT NATIONAL OIL PROCESSING COMPANY(ANOPC)

MATERIAL REQUISITION No.

079254C MR | 4 | 1 | 9 | 0 | – | 0 | 0 | 3

ITEM: 55-Z-001

SR Doc. CODE: A3403

PURCHASE ORDER N.: 079254A0166

T.EN TECHNIP ENERGIES — VENDOR DOCUMENT REVIEW

- ☐ 1 REVISE AND RESUBMIT
- ☐ 2 TO BE ISSUED AS FINAL PROVIDED COMMENTS ARE INCORPORATED
- ■ 3 NO COMMENT – FINAL ISSUE
- ☐ 4 FOR INFORMATION ONLY

jfazioli - May 15, 2023

Voltages used in the wiring diagram

Graphics	Voltage	Type	
⎓ 24V DC (L+) [DBU]	24V DC (L+) [DBU]	L+	DC, Positive
⎓ 24V DC (M) [DBU]	24V DC (M) [DBU]	M	DC, median conductor (0V)
~ 400V AC (BK)	400V AC (BK)	L	AC
N (BU)	N (BU)	N	Neutral
⏚ PE [GN/YE]	PE [GN/YE]	PE	Protective conductor

PROGETTO DESIGN		TENS. ESERC. OPER. VOLT.	400Vac
SERIE SERIES		TENS. COM. CONTR. VOLT.	230Vac 24Vdc
COMMESSA JOB	802–22	TENS. SEGN. SIGN. VOLT.	230Vac 24Vdc
COMMITTENTE CLIENT	TECHNIP ENERGIES ITALY		

					DATA/DATE	FIRME/CHK
				DES.	12.12.2022	M.G.
03	JUNCTION BOX 2	04.05.2023	M.G.	CHK	12.12.2022	R.L.
02	OIL SEPAR. 7-8	06.04.2023	M.G.	APPR.	12.12.2022	R.L.
01	AS BUILT	20.02.2023	M.G.			
00	FIRST EMISSION	12.12.2022	M.G.			
REV.	MODIFICATION	DATE	CHK			

Scaricare l'app gratuita QRSpac per visualizzare lo schema
L'App QRSpac è disponibile per IOS e Android

NORME STANDARDS 61439–1/2 — PROTEZIONI PROTECTION IP55

DESIGNAZIONI

clean Natural Power clean-impianti.it

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)
Tel. +39.049.9300.500 - Email. clean@clean-impianti.it

ELECTRIC BOARD
WHEEL WASHING SYSTEM

QESLR

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

INTESTAZIONE
HEADER

QESLR

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Foglio Sheet	Descrizione Description	Revisioni Revisions								
		1	2	3	4	5	6	7	8	9
1	INTESTAZIONE	X	X	X						
	HEADER									
2	LISTA FOGLI	X	X	X						
	INDEX									
3	LISTA FOGLI	X	X	X						
	INDEX									
4	LISTA FOGLI	X	X	X						
	INDEX									
5	LEGENDA SIMBOLI	X	X	X						
	SYMBOL LEGEND									
6	LEGENDA SIMBOLI	X	X	X						
	SYMBOL LEGEND									
10	ARRIVO LINEA [400V/50Hz]	X	X	X						
	[400V/50Hz] ARRIVAL LINE									
11	SERVIZI QUADRO ELETTRICO	X	X	X						
	ELECTRICAL BOARD SERVICE									
12	SERVIZI QUADRO ELETTRICO	X	X	X						
	ELECTRICAL BOARD SERVICE									
20	CIRCUITO POTENZA UTENZE	X	X	X						
	UTILITY POWER CIRCUIT									
21	CIRCUITO POTENZA UTENZE	X	X	X						
	UTILITY POWER CIRCUIT									
22	CIRCUITO POTENZA UTENZE	X	X	X						
	UTILITY POWER CIRCUIT									
23	CIRCUITO POTENZA UTENZE	X	X	X						
	UTILITY POWER CIRCUIT									
24	CIRCUITO POTENZA UTENZE	X	X	X						
	UTILITY POWER CIRCUIT									

Foglio Sheet	Descrizione Description	Revisioni Revisions								
		1	2	3	4	5	6	7	8	9
100	CIRCUITO ALIMENTAZIONE [24Vdc]	X	X	X						
	[24Vdc] POWER SUPPLY CIRCUIT									
101	ALIMENTAZIONI [24Vdc]	X	X	X						
	[24Vdc] ALIMENTATION									
102	ALIMENTAZIONI [24Vdc]	X	X	X						
	[24Vdc] ALIMENTATION									
103	ALIMENTAZIONI [24Vdc]	X	X	X						
	[24Vdc] ALIMENTATION									
104	ALIMENTAZIONI [24Vdc]	X	X	X						
	[24Vdc] ALIMENTATION									
110	ALIMENTAZIONI [24Vdc]	X	X	X						
	[24Vdc] ALIMENTATION									
150	CENTRALINA SICUREZZA	X	X	X						
	SAFETY UNIT									
200	CONFIGURAZIONE PLC	X	X	X						
	PLC CONFIGURATION									
201	TASTIERA OPERATORE	X	X	X						
	OPERATOR KEYBOARD									
210	ALIMENTAZIONE CPU - INGRESSI ANALOGICI CPU	X	X	X						
	CPU POWER - ANALOG CPU INPUTS									
211	INGRESSI DIGITALI / ANALOGICI CPU	X	X	X						
	DIGITAL / ANALOG CPU INPUTS									
212	USCITE DIGITALI CPU	X	X	X						
	CPU DIGITAL OUTPUTS									
213	USCITE DIGITALI CPU	X	X	X						
	CPU DIGITAL OUTPUTS									
214	INGRESSI DIGITALI [200A1]	X	X	X						
	DIGITAL INPUTS [200A1]									

REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

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QESLR

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		1	2	3	4	5	6	7	8	9
215	INGRESSI DIGITALI [200A1]	X	X	X						
	DIGITAL INPUTS [200A1]									
216	USCITE DIGITALI [200A1]	X	X	X						
	DIGITAL OUTPUTS [200A1]									
217	USCITE DIGITALI [200A1]	X	X	X						
	DIGITAL OUTPUTS [200A1]									
218	INGRESSI DIGITALI [200A2]	X	X	X						
	DIGITAL INPUTS [200A2]									
219	USCITE DIGITALI [200A2]	X	X	X						
	DIGITAL OUTPUTS [200A2]									
220	INGRESSI DIGITALI [200A3]	X	X	X						
	DIGITAL INPUTS [200A3]									
221	USCITE DIGITALI [200A3]	X	X	X						
	DIGITAL OUTPUTS [200A3]									
400	CONSENSI / SEGNALI AL CAMPO (SCORTA)	X	X	X						
	CONSENTS / SIGNALS TO THE FIELD (SPARE)									
401	CIRCUTIO AUSILIARIO	X	X	X						
	AUXILIARY CIRCUIT									
430	CENTRALINA CONTROLLO PH	X	X	X						
	PH CONTROL UNIT									
500	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
501	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
502	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
503	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
504	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
505	RIASSUNTIVI PLC	X	X	X						
	PLC SUMMARIES									
600	MORSETTIERA [XP]	X	X	X						
	TERMINAL BLOCK [XP]									
601	MORSETTIERA [XP]	X	X	X						
	TERMINAL BLOCK [XP]									
602	MORSETTIERA [XA]	X	X	X						
	TERMINAL BLOCK [XA]									
603	MORSETTIERA [XIN]	X	X	X						
	TERMINAL BLOCK [XIN]									
604	MORSETTIERA [XOUT]	X	X	X						
	TERMINAL BLOCK [XOUT]									
605	MORSETTIERA [XJB]	X	X	X						
	TERMINAL BLOCK [XJB]									
610	MORSETTIERE [XP-XA] - JB2	X	X	X						
	TERMINAL BLOCKS [XP-XA] - JB2									
700	LAYOUT QUADRO ELETTRICO	X	X	X						
	ELECTRICAL BOARD LAYOUT									
701	LAYOUT QUADRO ELETTRICO	X	X	X						
	ELECTRICAL BOARD LAYOUT									
702	LAYOUT FRONTEQUADRO	X	X	X						
	FRONT-PANEL LAYOUT									
703	LAYOUT PULSANTIERE	X	X	X						
	PUSHBUTTONS LAYOUT									
704	LAYOUT CASSETTA DERIVAZIONE [JB]	X	X	X						
	JUNCTION BOX LAYOUT [JB]									

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705	LAYOUT CASSETTA DERIVAZIONE [JB2]	X	X	X						
	JUNCTION BOX LAYOUT [JB2]									
800	LISTA MATERIALI	X	X	X						
	MATERIAL LIST									
801	LISTA MATERIALI	X	X	X						
	MATERIAL LIST									
802	LISTA MATERIALI	X	X	X						
	MATERIAL LIST									
803	LISTA MATERIALI	X	X	X						
	MATERIAL LIST									
804	LISTA MATERIALI	X	X	X						
	MATERIAL LIST									

Foglio Sheet	Descrizione Description	Revisioni Revisions 1	2	3	4	5	6	7	8	9

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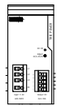
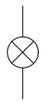
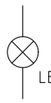
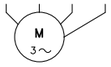
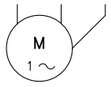
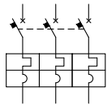
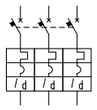
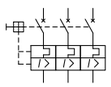
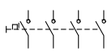
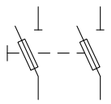
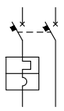
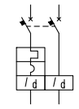
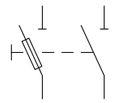
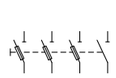
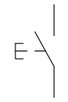
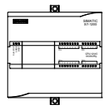
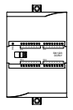
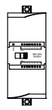
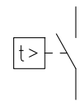
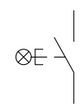
LEGENDA SIMBOLI \ SYMBOLS LEGEND

Simbolo Ref.	Descrizione Description	File :
	Alimentatore 24Vdc *24VDC power supply*	2866459
	Segnalazione luminosa *LIGHT WARNING*	H5
	Lampada di segnalazione a diodo elettroluminescente *Electroluminescent diode signal lamp*	H25
	Motore asincrono trifase *three-phase asynchronous motor*	M2
	Motore corrente alternata monofase *single-phase alternating current motor*	M9
	Inter. automatico magnetotermico tripolare *inter. automatic three-pole magnetothermic*	Q11
	Inter. automatico tripolare magnetotermico con diff. *inter. automatic three-pole magnetothermic with diff.*	Q15
	Inter. automatico tripolare con prot. max corrente e termica *inter. automatic three-pole with prot. max current and thermal*	Q23
	Inter. Sezionatore tetrapolare con dispositivo di blocco *inter. Tetrapolar disconnector with locking device*	Q80
	Sezionatore bipolare con fusibili *Bipolar disconnector with fuses*	Q82
	Inter. automatico magnetotermico bipolare con un solo polo protetto *inter. automatic bipolar magnetothermic with a single protected pole*	Q142

Simbolo Ref.	Descrizione Description	File :
	Inter. automatico Magnetotermico-Differenziale bipolare con un solo polo protetto *inter. automatic bipolar magnetothermic-differential with a single protected pole*	Q144
	Sezionatore con fusibili 1P+N *Disconnector with 1p N fuses*	Q150
	Sezionatore con fusibili 3P+N *Disconnector with 3P N fuses*	Q151
	Comando a Pulsante NO *No button control*	S2
	CPU 1214C (14 DI 24V DC, 10 DO relè, 2 AI), PS 24V DC *CPU 1214c (14 of 24V DC, 10 do relay, 2 AI), ps 24V DC*	S7_1200_CPU1214_DCRLY
	Ingressi/uscite digitali, 16 DI, 24V DC / 16 DO, relè *Digital inputs/outputs, 16 di, 24V DC / 16 DO, Relay*	S7_1200_SM1223_16I_16OR
	Ingressi/uscite digitali, 8 DI, 24V DC / 8 DO, relè *Digital inputs/outputs, 8 di, 24V DC / 8 Do, Relay*	S7_1200_SM1223_8I_8OR
	Fine corsa NC *NC limit switch*	S10C
	Comandato dal livello di un fluido (livellostato) NO *controlled by the level of a fluid (level switch) no*	S15
	Comandato dalla temperatura (termostato) NO *temperature controlled (thermostat) no*	S18
	Pulsante con lampada di segnalazione incorporata NO *button with built-in signal lamp no*	S75

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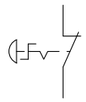
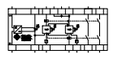
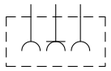
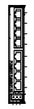
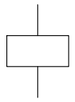
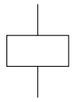
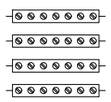
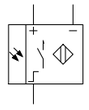
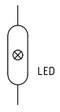
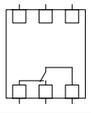
LEGENDA SIMBOLI
SYMBOL LEGEND

QESLR

Sheet 5
Next Sheet 6

LEGENDA SIMBOLI \ SYMBOLS LEGEND

Simbolo Ref.	Descrizione Description	Simbolo Ref.	Descrizione Description
	Pulsante di emergenza a posizione stabile girare per sbloccare NC *Stable position emergency button turn to unlock NC* File : S81C		Categoria 4 secondo EN 954-1, 2NO, 24 VAC *Category 4 according to EN 954-1, 2No, 24 VAC* File : CS AR-08
	Presa di corrente bipolare con contatto PE *Bipolar power socket with PE contact* File : X1		File :
	Switch Ethernet *ETHERNET SWITCH* File : FL1008N		File :
	Bobina Relè Aux *Aux relay coil* File : KA1		File :
	Bobina contattore *Contactor coil* File : KM1		File :
	HMI *HMI* File : MT8102IEU		File :
	Sbarra distributrice - 1 fase *Distributor bar - 1 phase* File : WB010		File :
	Sbarra distributrice - 4 fasi *Distributor bar - 4 phases* File : WB040		File :
	Interruttore fotoelettrico. Ricevitore 3 fili NO alimentato in D.C. *photoelectric switch. 3-wire receiver no powered in DC* File : BFR02C		File :
	Lampada di segnalazione a diodo elettroluminescente *LED electroluminescent diode signal lamp* File : LAMPADA_QE		File :
	RELE' MAN. E SEQ. FASI 1 MODULO 208/480V *relay man. and seq. Phase 1 module 208/480V* File : LOV_PMV10A440		File :

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

QESLR

LEGENDA SIMBOLI
SYMBOL LEGEND

Sheet 6 | Next Sheet 10

ARRIVO LINEA [400V/50Hz]
[400V/50Hz] ARRIVAL LINE

JB

R XJB — R — R XP
S XJB — S — S XP
T XJB — T — T XP
N XJB — N — N XP

W0
3(1x185)+(1x95)
Cables-ends / M12

CASSETTA DI DERIVAZIONE
JUNCTION BOX

10QS1
125A
INTERRUTTORE GENERALE
MAIN SWITCH

10WBL
10L1 — 400V AC (BK) — 10L1 400Vac → 11.0
10L2 — 400V AC (BK) — 10L2 400Vac → 11.0
10L3 — 400V AC (BK) — 10L3 400Vac → 11.0
10N — N (BU) — 10N 400Vac → 11.0
100/125A
DISTRIBUTORE DI POTENZIALE
POTENTIAL DISTRIBUTOR

10CF2
CONTROLLO FASE
PHASE CONTROL
L1 L2 L3
12 14 11
I5.2 → 220.4
103L+ → 220.4

PE XJB — PE XP — PE — 10WPE — ⏚ PE [GN/YE] — PE → 11.0
SBARRA DI TERRA
EARTH BAR

REV.	MOD. OBJECT	DATE	SIGNAT.
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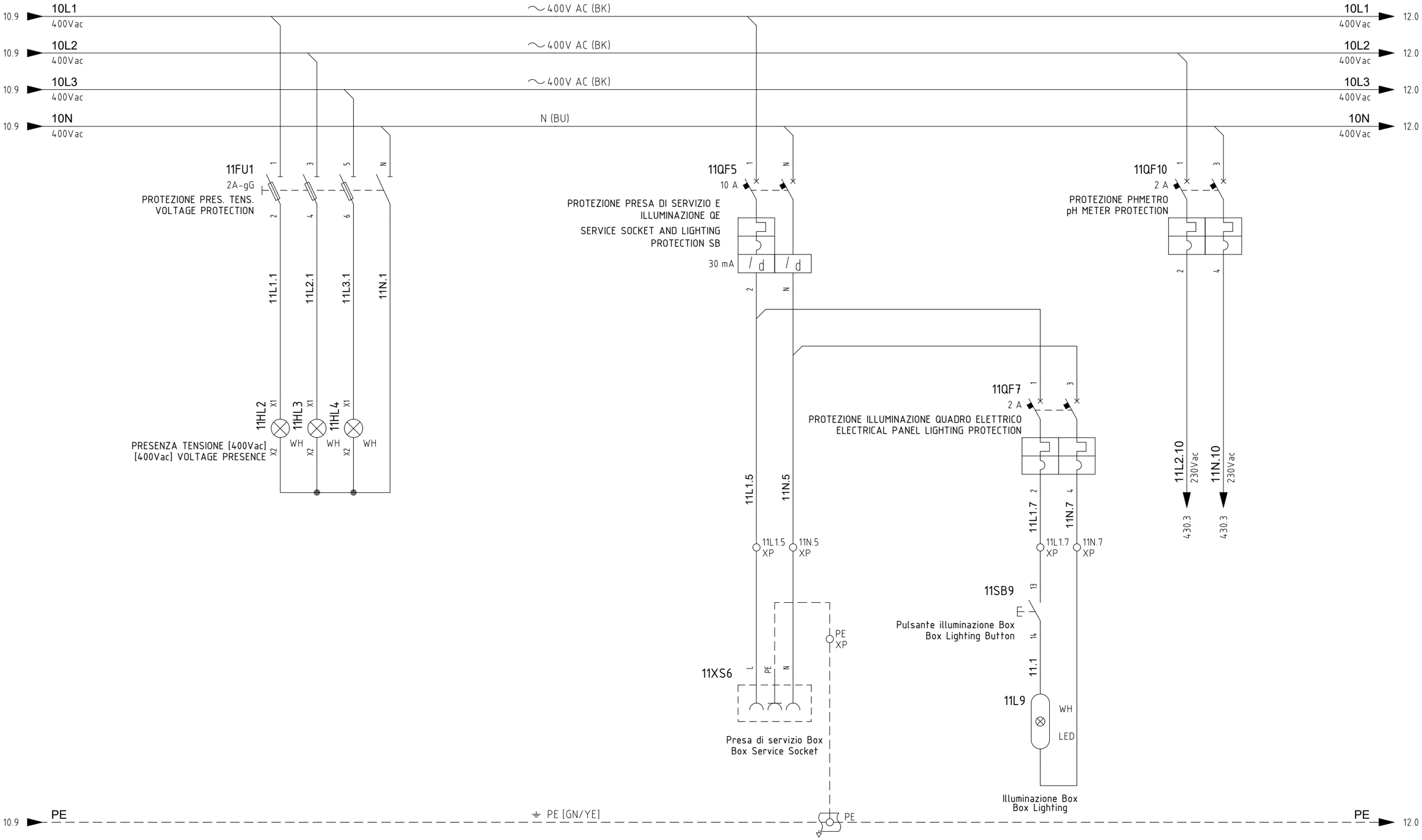
ARRIVO LINEA [400V/50Hz]
[400V/50Hz] ARRIVAL LINE

QESLR

Sheet 10 — Next Sheet 11



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SERVIZI QUADRO ELETTRICO
ELECTRICAL BOARD SERVICE

QESLR

Sheet 11 | Next Sheet 12

11.9 10L1 400Vac ~400V AC (BK) 10L1 400Vac 20.0

11.9 10L2 400Vac ~400V AC (BK) 10L2 400Vac 20.0

11.9 10L3 400Vac ~400V AC (BK) 10L3 400Vac 20.0

11.9 10N 400Vac N (BU) 10N 400Vac 20.0

12QF1
4 A
PROTEZIONE [230Vac] CLIMATIZZATORE
PROTECTION [230Vac] AIR CONDITIONER
1 3 2 4
12L2.1
12N.1

12QF4
10 A
PROTEZIONE CLIMATIZZATORE ESTERNA
EXTERNAL AIR CONDITIONING PROTECTION
30 mA
1 N 2 N
12L3.4
12N.4

12S2
t>
TERMOSTATO QUADRO ELETTRICO
ELECTRICAL PANEL THERMOSTAT
13 14

12.1

HVAC2
L N

Condizionatore Quadro elettrico
Electrical control panel cooling
0,48 kW

12L3.4 XP
12N.4 XP
PE XP

Climatizzazione Container
1,9 kW (3,5 kW max)
Container cooling system
1,9 kW (3,5 kW max)

11.9 PE PE PE 20.0

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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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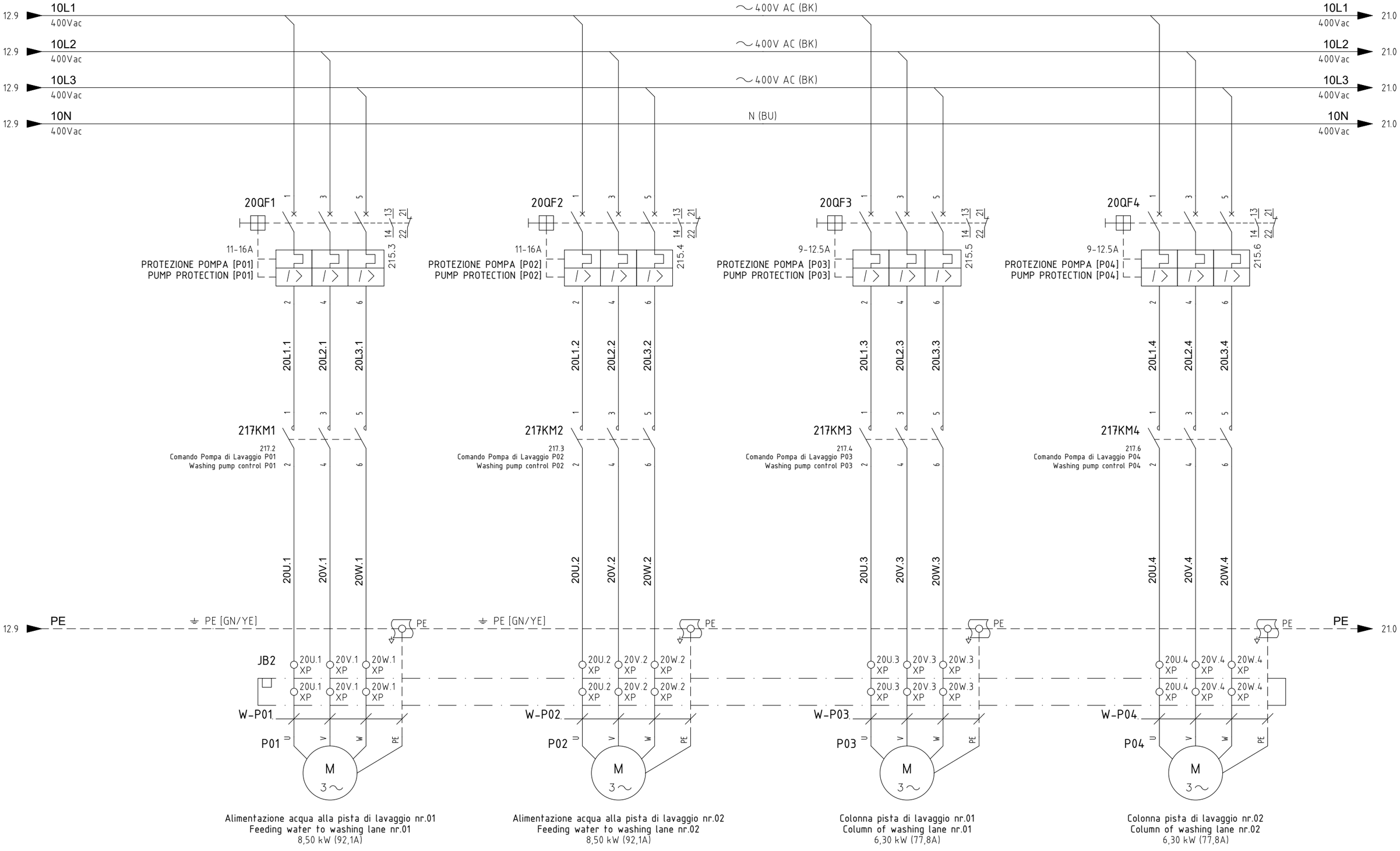
APPR. R.L.

DOCUMENT Schema Elettrico
Electrical Drawing

SERVIZI QUADRO ELETTRICO
ELECTRICAL BOARD SERVICE

QESLR

Sheet 12
Next Sheet 20



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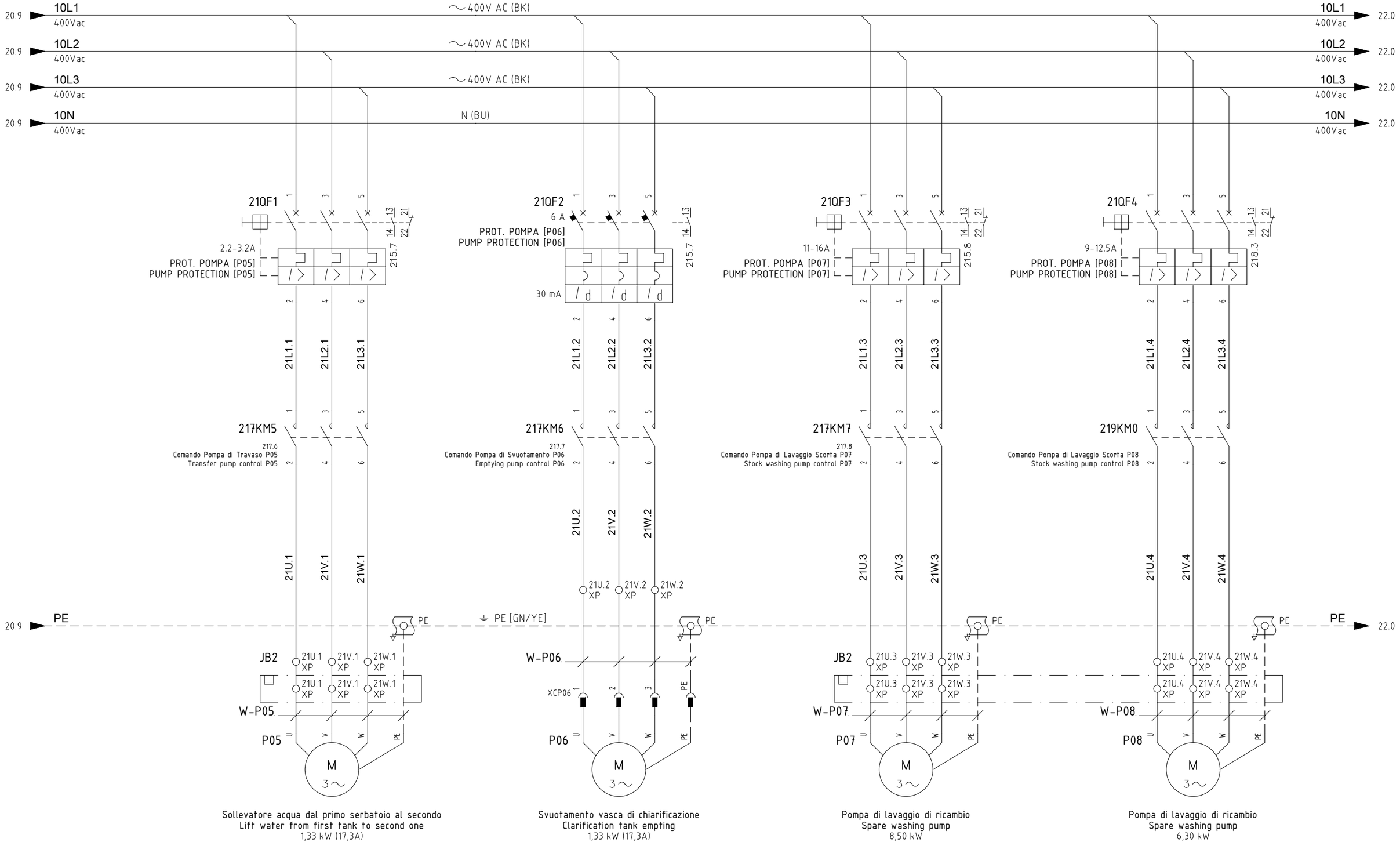
DOCUMENT: Schema Elettrico
Electrical Drawing

CIRCUITO POTENZA UTENZE
UTILITY POWER CIRCUIT

QESLR

Sheet: 20
Next Sheet: 21



Sollevatore acqua dal primo serbatoio al secondo
Lift water from first tank to second one
1,33 kW (17,3A)

Svuotamento vasca di chiarificazione
Clarification tank empting
1,33 kW (17,3A)

Pompa di lavaggio di ricambio
Spare washing pump
8,50 kW

Pompa di lavaggio di ricambio
Spare washing pump
6,30 kW

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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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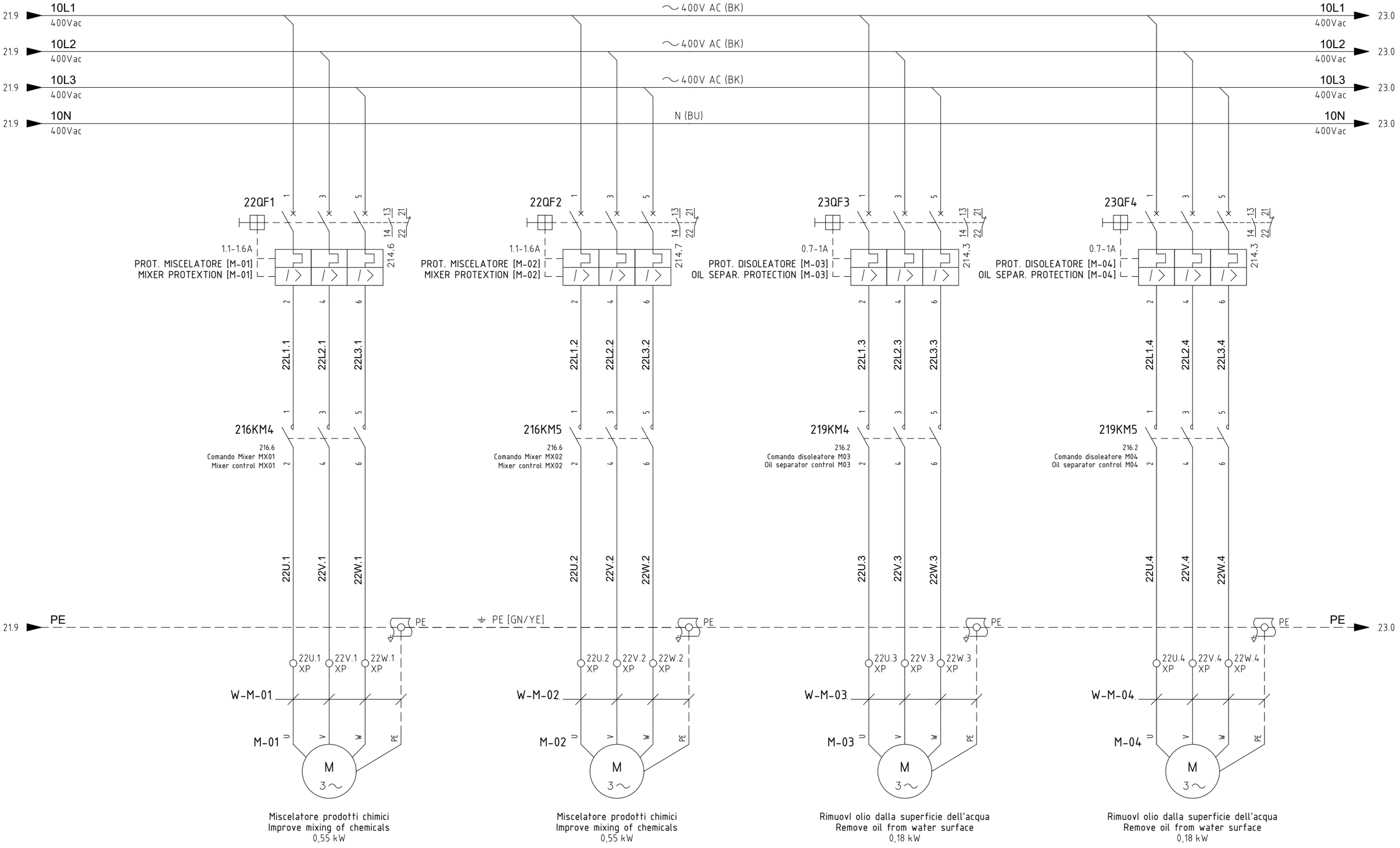
DOCUMENT: Schema Elettrico
Electrical Drawing

CIRCUITO POTENZA UTENZE
UTILITY POWER CIRCUIT

QESLR

Sheet: 21
Next Sheet: 22



Miscelatore prodotti chimici
Improve mixing of chemicals
0,55 kW

Miscelatore prodotti chimici
Improve mixing of chemicals
0,55 kW

Rimuovl olio dalla superficie dell'acqua
Remove oil from water surface
0,18 kW

Rimuovl olio dalla superficie dell'acqua
Remove oil from water surface
0,18 kW

REV.	MOD. OBJECT	DATE	SIGNAT.
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TECHNIP ENERGIES ITALY

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DATE: 04.05.2023
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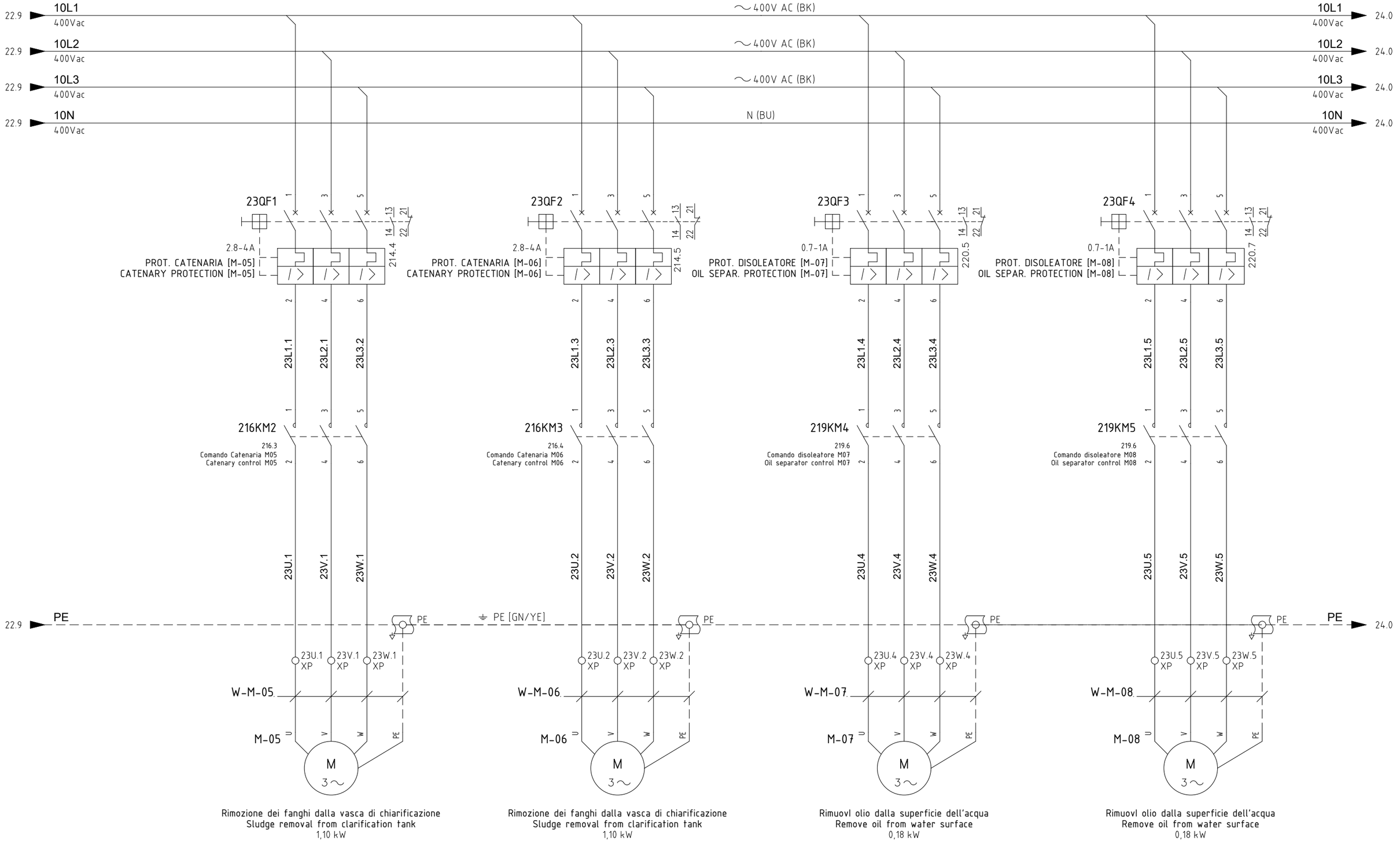
FILE: QESLR.dwg
DRAWN: M.G.
APPR.: R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

CIRCUITO POTENZA UTENZE
UTILITY POWER CIRCUIT

QESLR

Sheet: 22
Next Sheet: 23



Rimozione dei fanghi dalla vasca di chiarificazione
Sludge removal from clarification tank
1,10 kW

Rimozione dei fanghi dalla vasca di chiarificazione
Sludge removal from clarification tank
1,10 kW

Rimuovl olio dalla superficie dell'acqua
Remove oil from water surface
0,18 kW

Rimuovl olio dalla superficie dell'acqua
Remove oil from water surface
0,18 kW

REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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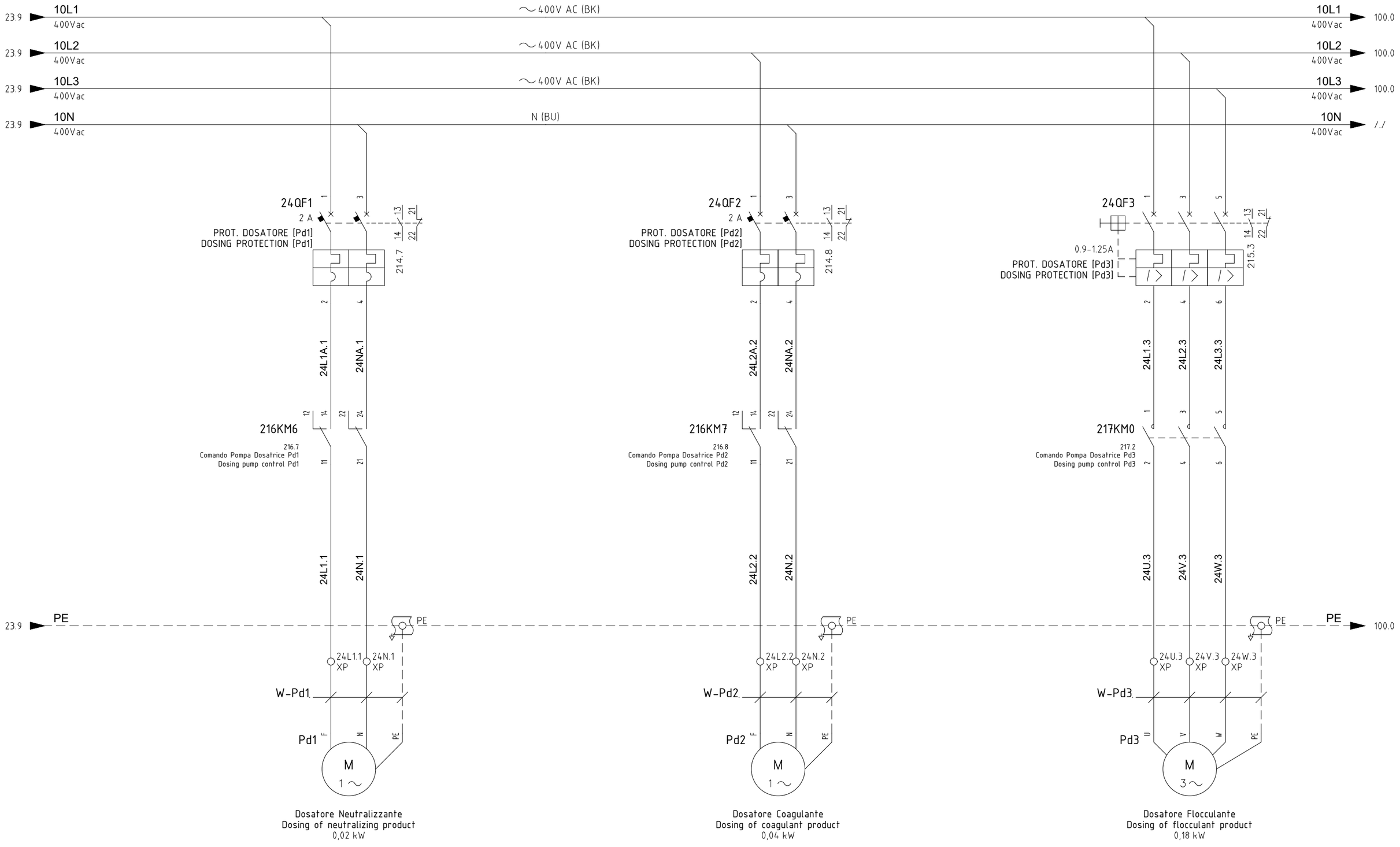
Electrical Drawing

CIRCUITO POTENZA UTENZE
UTILITY POWER CIRCUIT

QESLR

Sheet: 23
Next Sheet: 24



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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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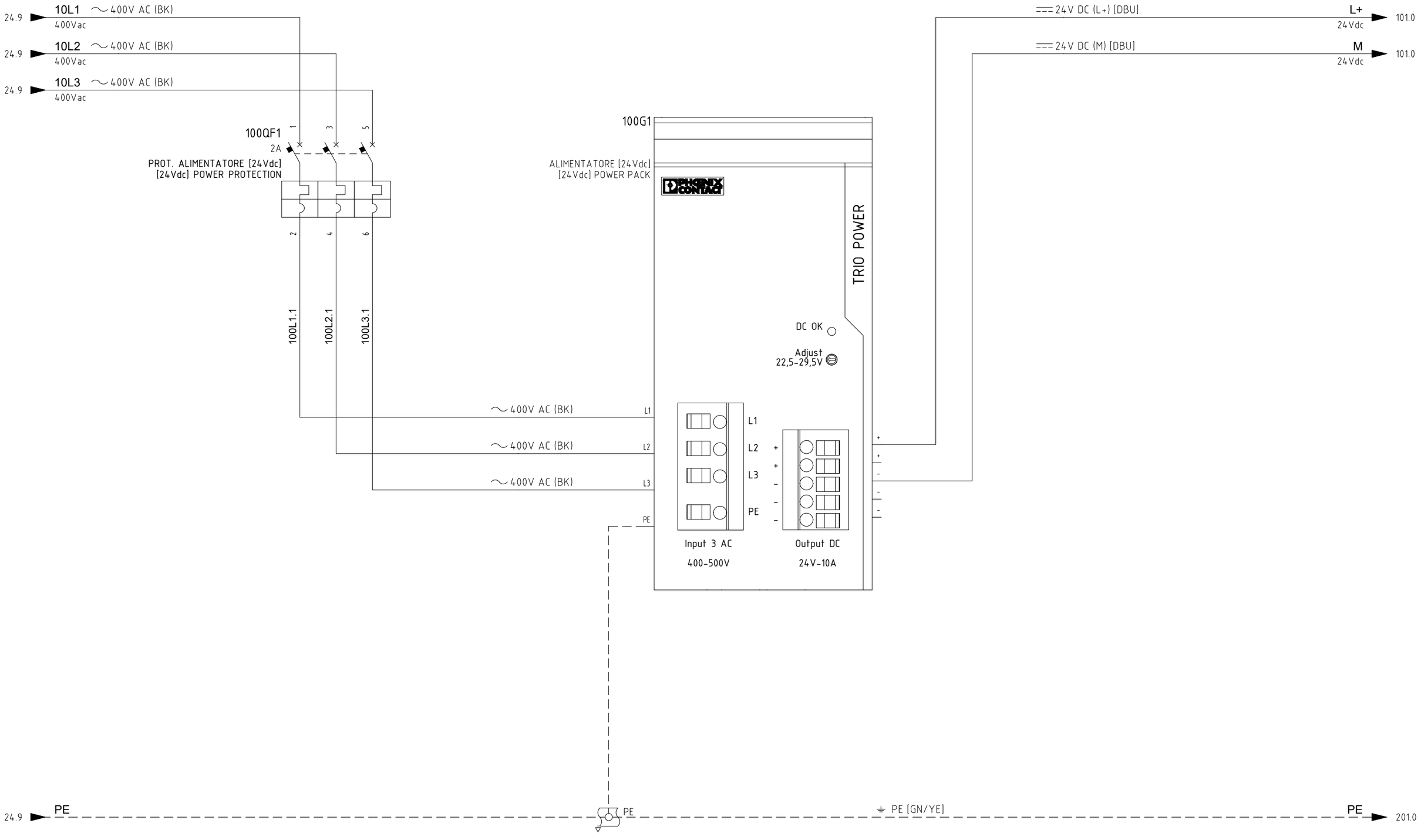
Electrical Drawing

CIRCUITO POTENZA UTENZE
UTILITY POWER CIRCUIT

QESLR

Sheet: 24
Next Sheet: 100



REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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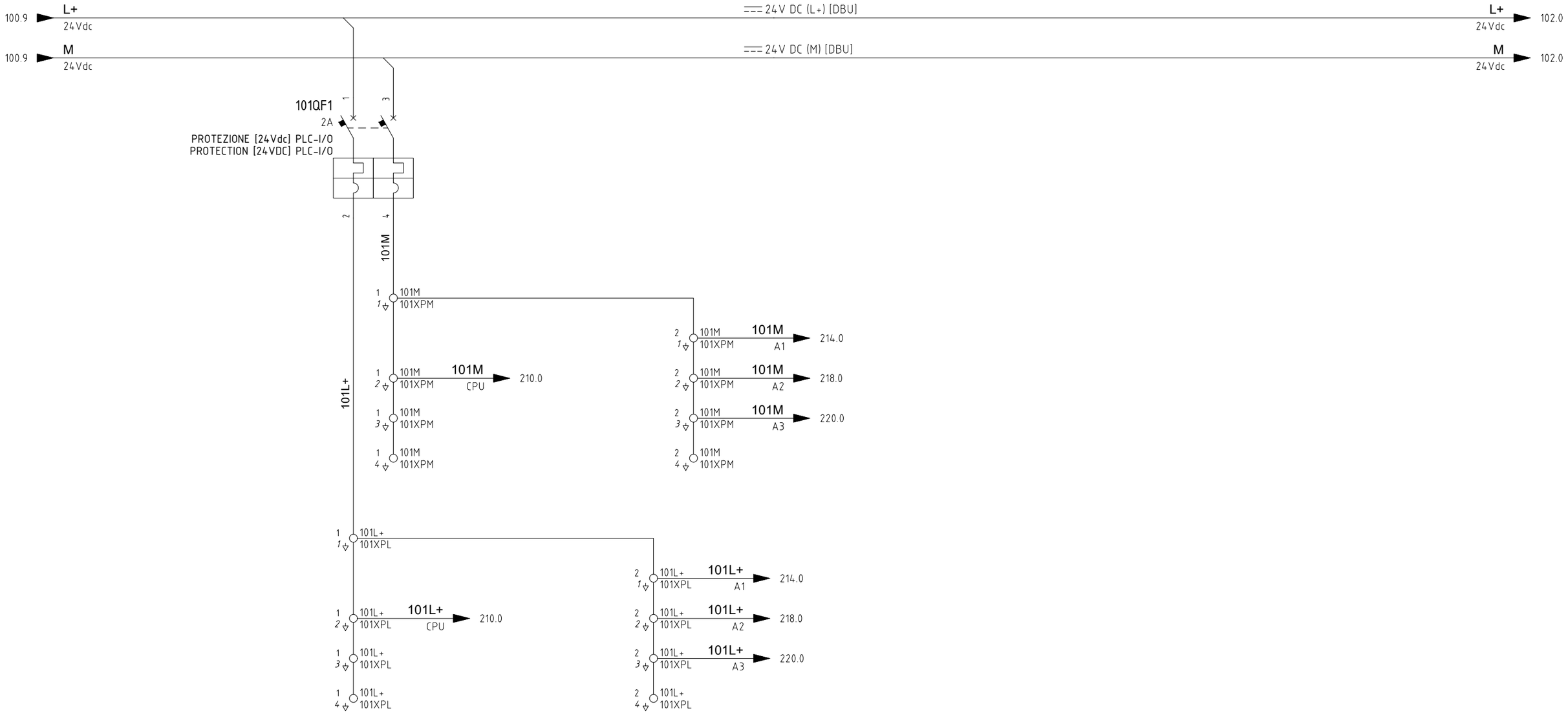
Electrical Drawing

CIRCUITO ALIMENTAZIONE [24Vdc]
[24Vdc] POWER SUPPLY CIRCUIT

QESLR

Sheet 100
Next Sheet 101



Alimentazione [24Vdc]
CPU - Schede PLC

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
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Camposampiero (PD)

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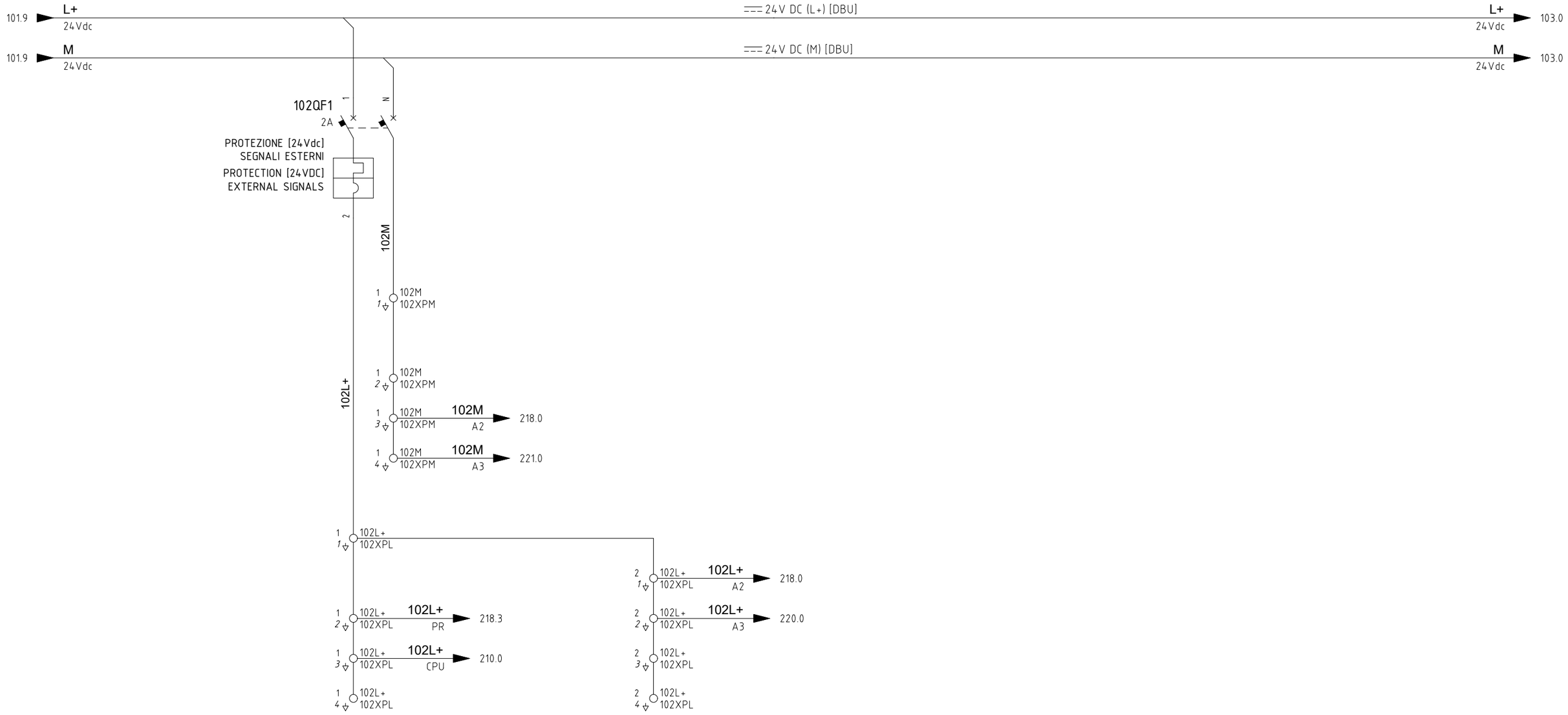
DRAWN: M.G.
APPR.: R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

QESLR

ALIMENTAZIONI [24Vdc]
[24Vdc] ALIMENTATION

Sheet: 101
Next Sheet: 102



REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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DOC.Nr.
FILE QESLR.dwg
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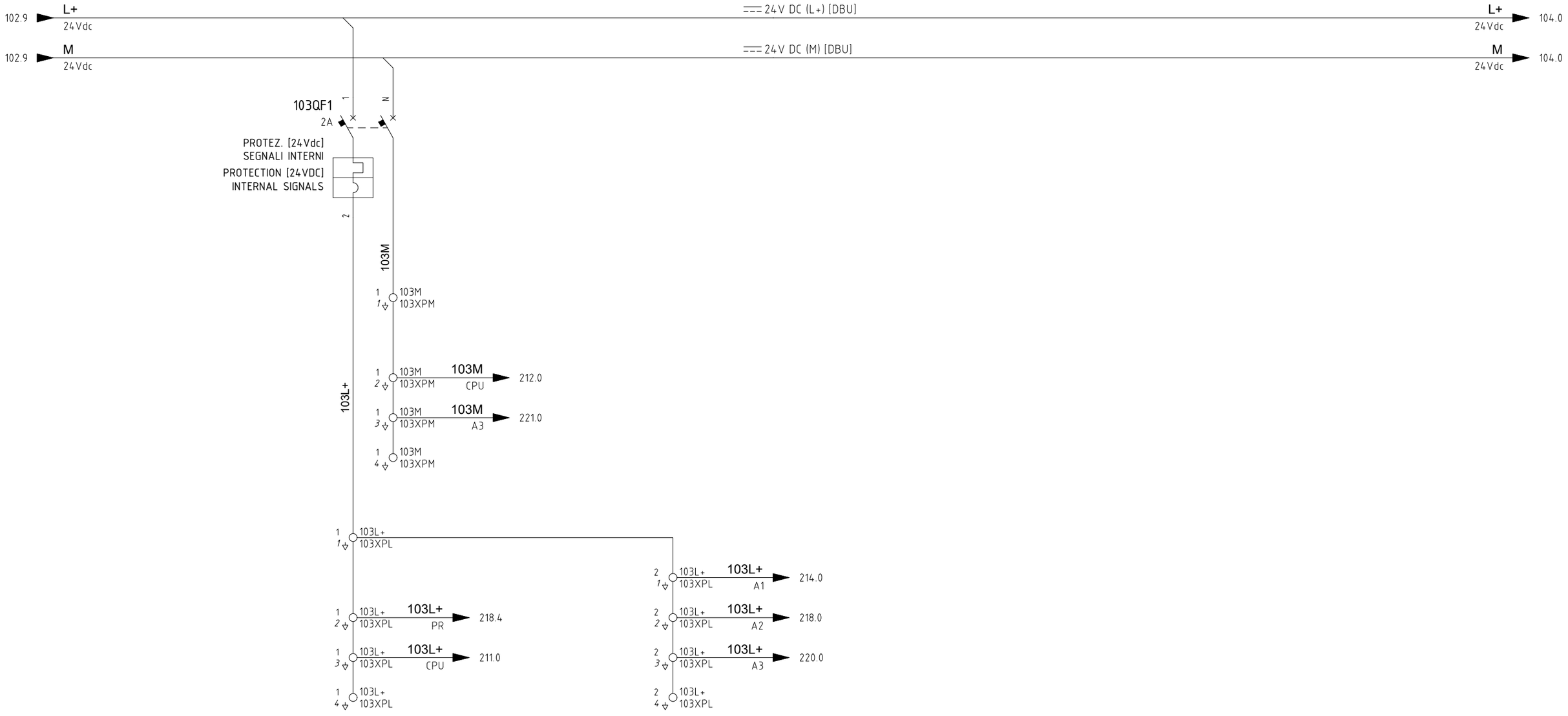
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

ALIMENTAZIONI [24Vdc]
[24Vdc] ALIMENTATION

QESLR

Sheet 102
Next Sheet 103



Alimentazione [24Vdc] Segnali
Interni Quadro Elettrico

REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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Electrical Drawing

ALIMENTAZIONI [24Vdc]
[24Vdc] ALIMENTATION

QESLR

Sheet 103
Next Sheet 104

103.9 L+ 24Vdc

103.9 M 24Vdc

=== 24V DC (L+) [DBU]

=== 24V DC (M) [DBU]

L+ 24Vdc 110.0

M 24Vdc 110.0

104QF1
4A
1
N
2

PROTEZIONE [24Vdc]
HMI/SWITCH
PROTECTION [24Vdc]
HMI/SWITCH

104L+ 24Vdc 201.0

104M 24Vdc 201.0

Alimentazione [24Vdc]
HMI / Switch

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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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DRAWN. M.G.
APPR. R.L.

DOCUMENT Schema Elettrico
Electrical Drawing

ALIMENTAZIONI [24Vdc]
[24Vdc] ALIMENTATION

QESLR

Sheet 104
Next Sheet 110

104.9 L+ 24Vdc

104.9 M 24Vdc

=== 24V DC (L+) [DBU]

=== 24V DC (M) [DBU]

L+ 24Vdc 150.0

M 24Vdc 150.0

150KM1
150.3
CONTATTORE SICUREZZA
SAFETY CONTACTOR

150KM2
150.4
CONTATTORE SICUREZZA
SAFETY CONTACTOR

110.1

110.2

110M

110L+

1 110M 110XPM

2 110M 110XPM

3 110M 110XPM → 110M A1 → 216.0

4 110M 110XPM → 110M A2 → 219.0

1 110L+ 110XPL

2 110L+ 110XPL

3 110L+ 110XPL → 110L+ A1 → 216.0

4 110L+ 110XPL → 110L+ A2 → 219.0

Alimentazione [24Vdc]
Circuiti Sicurezza

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

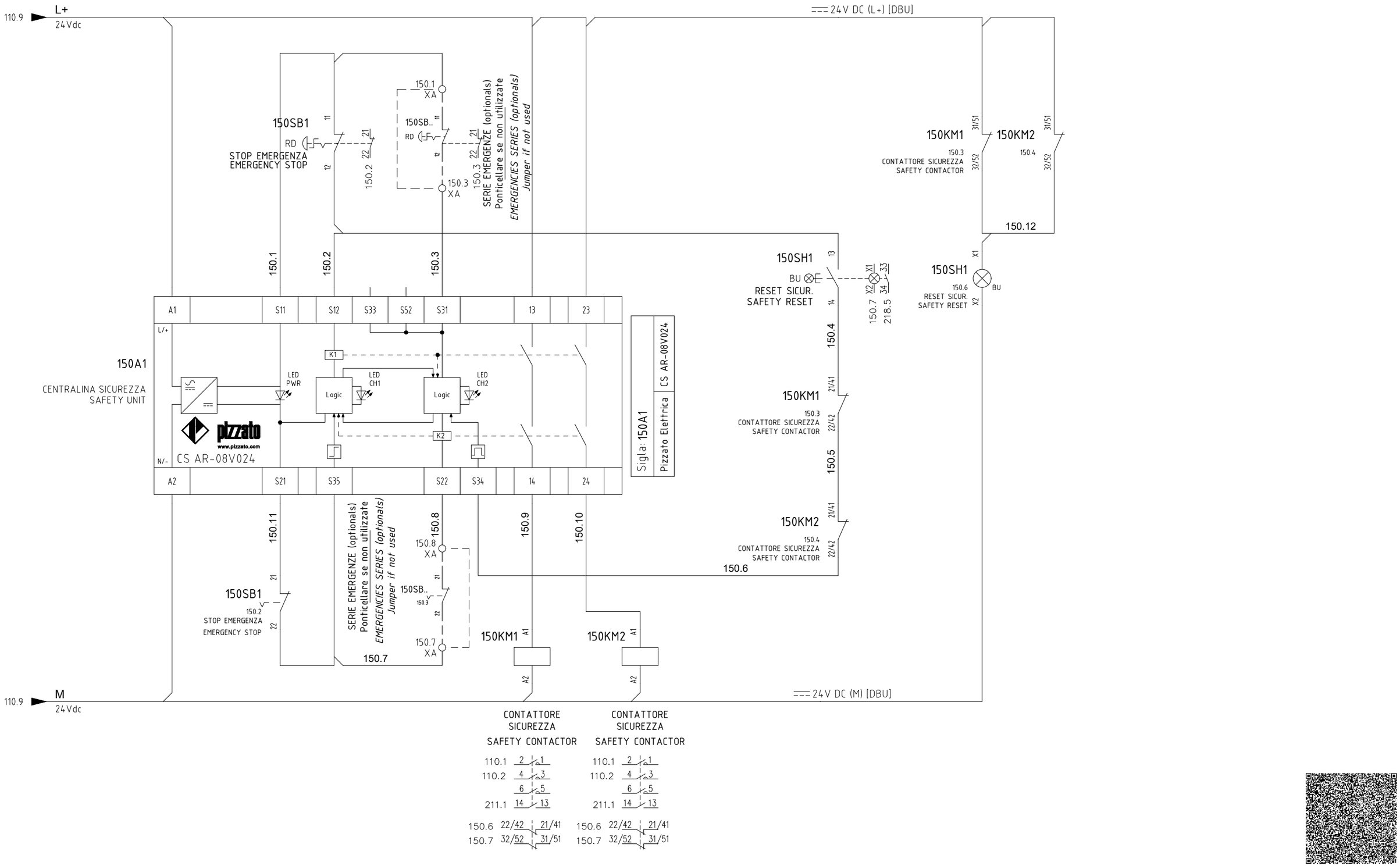
DOCUMENT Schema Elettrico
Electrical Drawing

ALIMENTAZIONI [24Vdc]
[24Vdc] ALIMENTATION

QESLR

Sheet 110

Next Sheet 150



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Camposampiero (PD)

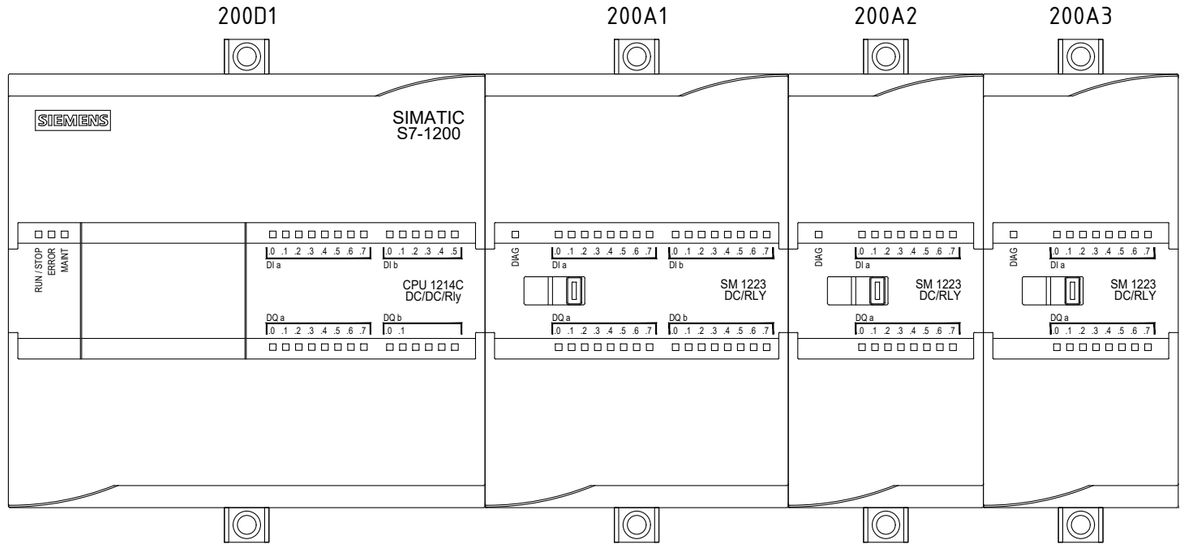
DATE: 04.05.2023
DOC.Nr.
FILE: QESLR.dwg
DRAWN: M.G.
APPR.: R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

CENTRALINA SICUREZZA
SAFETY UNIT

QESLR

Sheet: 150
Next Sheet: 200



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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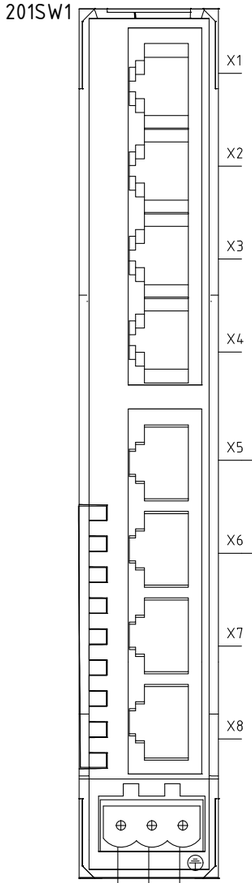
CONFIGURAZIONE PLC
PLC CONFIGURATION

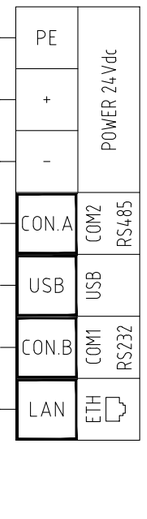
QESLR

Sheet 200
Next Sheet 201

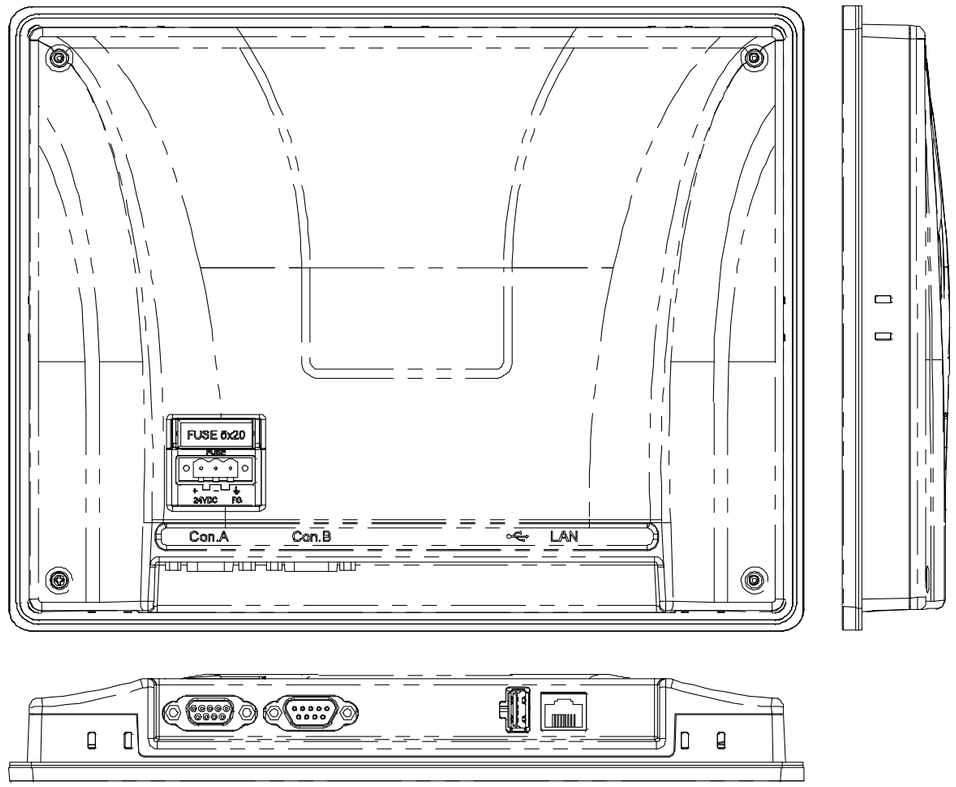
Sigla: 201SW1	
Phoenix Contact	1085256

SWITCH ETHERNET





201B2



PANNELLO OPERATORE

OPERATOR PANEL

ETH2 — PLC — 210.9

ETH1

104.2 — 104L+ — 24Vdc — 24V DC (L+) [DBU]

104.2 — 104M — 24Vdc — 24V DC (M) [DBU]

100.9 — PE — PE [GN/YE] — PE — PE — PE — 210.0

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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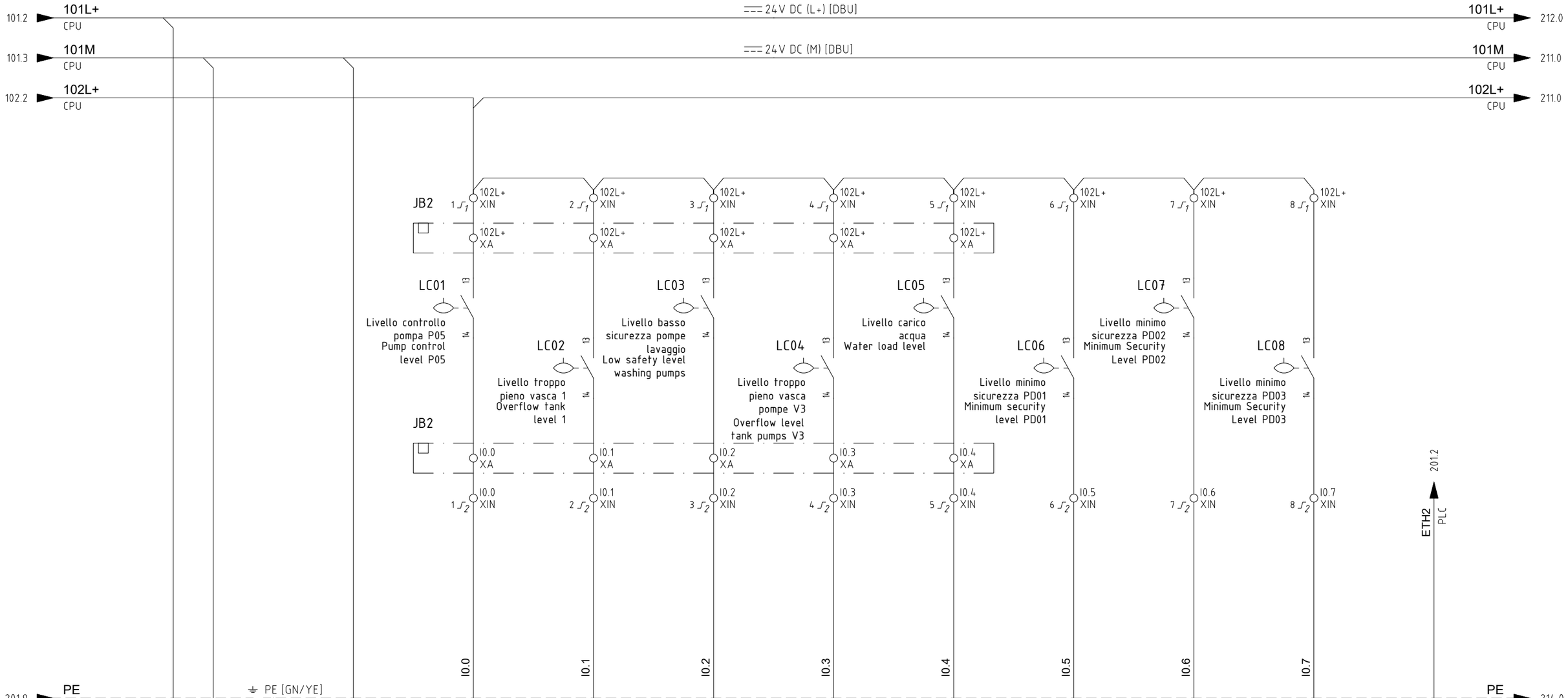
DOCUMENT: Schema Elettrico
Electrical Drawing

TASTIERA OPERATORE
OPERATOR KEYBOARD

QESLR

Sheet 201 | Next Sheet 210



X10/1 X10/2 X10/3 L+ / 24 VDC P.E. M / 24 VDC	X10/6 1M	X10/7 DI a.0 I0.0	X10/8 DI a.1 I0.1	X10/9 DI a.2 I0.2	X10/10 DI a.3 I0.3	X10/11 DI a.4 I0.4	X10/12 DI a.5 I0.5	X10/13 DI a.6 I0.6	X10/14 DI a.7 I0.7	X1/ Ethernet port
CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0
Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2
Alimentazione 24Vdc 24Vdc Supply	Alimentazione 24Vdc 24Vdc Supply	LC01 / Livello controllo pompa P05 Pump control level P05	LC02 / Livello troppo pieno vasca 1 Overflow tank level 1	LC03 / Livello basso sicurezza pompe lavaggio Low safety level washing pumps	LC04 / Livello troppo pieno vasca pompe V3 Overflow level tank pumps V3	LC05 / Livello carico acqua Water load level	LC06 / Livello minimo sicurezza PD01 Minimum security level PD01	LC07 / Livello minimo sicurezza PD02 Minimum Security Level PD02	LC08 / Livello minimo sicurezza PD03 Minimum Security Level PD03	Ethernet port

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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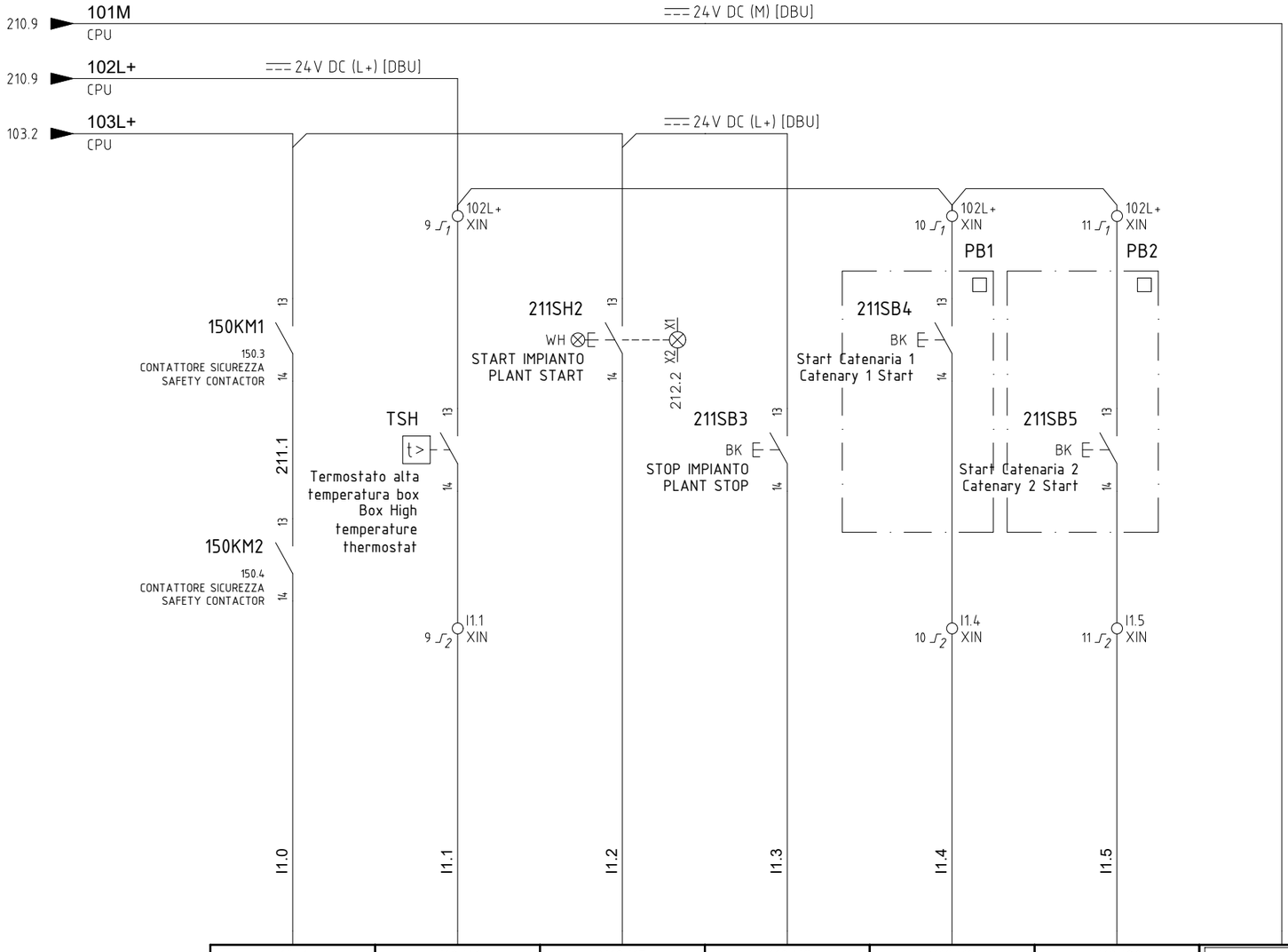
DOCUMENT Schema Elettrico
Electrical Drawing

ALIMENTAZIONE CPU - INGRESSI ANALOGICI CPU
CPU POWER - ANALOG CPU INPUTS

QESLR

Sheet 210
Next Sheet 211



X10/15	X10/16	X10/17	X10/18	X10/19	X10/20	X11/1
DI b.0	DI b.1	DI b.2	DI b.3	DI b.4	DI b.5	2 M
I1.0	I1.1	I1.2	I1.3	I1.4	I1.5	
CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0	CPU 1214C MOD. 0
Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2
EM_SC / Emergenza Intervenuta Emergency intervened	TSH / Termostato alta temperatura Box Box High temperature thermostat	PLS_START / Pulsante start su quadro Plant Start	PLS_STOP / Pulsante stop su quadro Plant Stop	PLS_START_M05 / Pulsante start catenaria 1 Catenary 1 Start	PLS_START_M06 / Pulsante start catenaria 2 Catenary 2 Start	Alimentazione 24Vdc 24Vdc Supply

X11/2	X11/3
AI 0	AI 1
IW100	IW102
CPU 1214C MOD. 0	CPU 1214C MOD. 0
Name: 200D1 Sheet: 200.2	Name: 200D1 Sheet: 200.2
Scorta Spare	Scorta Spare

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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DOCUMENT: Schema Elettrico
Electrical Drawing

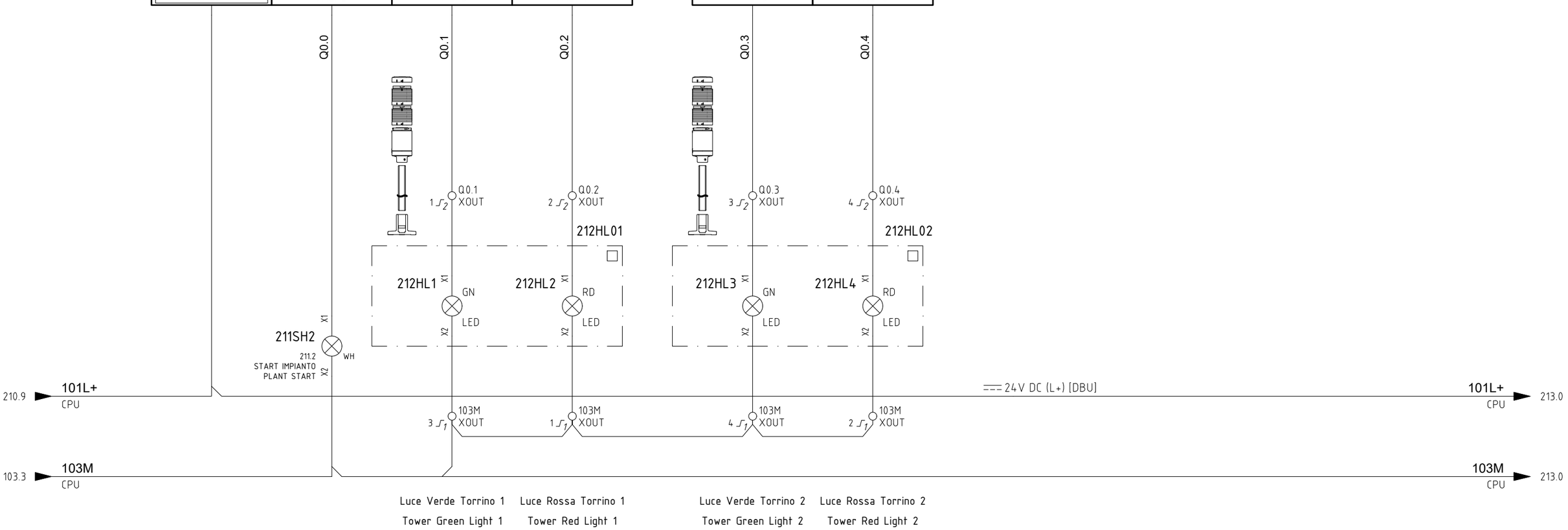
INGRESSI DIGITALI / ANALOGICI CPU
DIGITAL / ANALOG CPU INPUTS

QESLR

Sheet 211
Next Sheet 212

Alimentazione 24Vdc 24Vdc Supply		STR_IMP / Luce Start Impianto Light Start Plant		LTR1 / Luce Verde Torrino Green Light 1		LTV2 / Luce Rossa Torrino Red Light 1	
Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2
CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0
1L X12/1		Q0.0 DQ a.0 X12/2		Q0.1 DQ a.1 X12/3		Q0.2 DQ a.2 X12/4	

LTR3 / Luce Verde Torrino Green Light 2		LTV4 / Luce Rossa Torrino Red Light 2	
Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2
CPU 1214C	MOD. 0	CPU 1214C	MOD. 0
Q0.3 DQ a.3 X12/5		Q0.4 DQ a.4 X12/6	



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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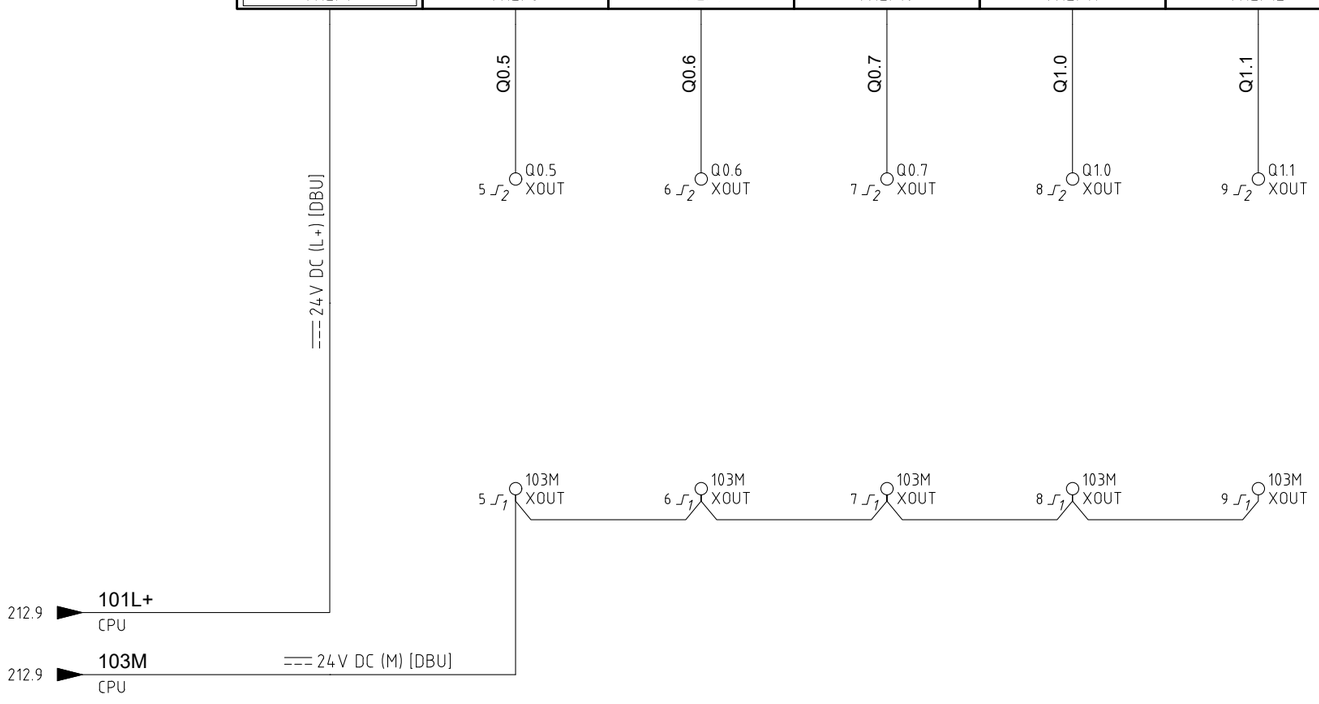
DOCUMENT: Schema Elettrico
Electrical Drawing

USCITE DIGITALI CPU
CPU DIGITAL OUTPUTS

QESLR

Sheet 212
Next Sheet 213

Alimentazione 24Vdc 24Vdc Supply		Scorta Spare		Scorta Spare		Scorta Spare		Scorta Spare		Scorta Spare	
Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2	Name: 200D1	Sheet: 200.2
CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0	CPU 1214C	MOD. 0
2L X12/7		Q0.5 DQ a.5 X12/8		Q0.6 DQ a.6 X12/9		Q0.7 DQ a.7 X12/10		Q1.0 DQ b.0 X12/11		Q1.1 DQ b.1 X12/12	



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Electrical Drawing

USCITE DIGITALI CPU
CPU DIGITAL OUTPUTS

QESLR

Sheet 213
Next Sheet 214

101.4 **101L+** A1 — 24V DC (L+) [DBU]

101.5 **101M** A1 — 24V DC (M) [DBU] → **101M** A1 215.0

103.4 **103L+** A1 — 24V DC (L+) [DBU] → **103L+** A1 215.0

210.9 **PE** — PE [GN/YE] → **PE** 218.0

23QF3	23QF1	22QF1	24QF1
13 / 14	13 / 14	13 / 14	13 / 14
22.6 PROT. DISOLEATORE [M-03] OIL SEPAR. PROTECTION [M-03]	23.2 PROT. CATENARIA [M-05] CATENARY PROTECTION [M-05]	22.2 PROT. MISCELATORE [M-01] MIXER PROTEXTION [M-01]	24.2

23QF4	23QF2	22QF2	24QF2
13 / 14	13 / 14	13 / 14	13 / 14
22.8 PROT. DISOLEATORE [M-04] OIL SEPAR. PROTECTION [M-04]	23.4 PROT. CATENARIA [M-06] CATENARY PROTECTION [M-06]	22.4 PROT. MISCELATORE [M-02] MIXER PROTEXTION [M-02]	24.5 PROTEZIONE DOSATORE [Pd2] DOSING PROTECTION [Pd2]

	I2.0	I2.1	I2.2	I2.3	I2.4	I2.5	I2.6	I2.7

X11/1	X10/1 X10/2	X10/3	X10/4	X10/5	X10/6	X10/7	X10/8	X10/9	X10/10	X10/11
GND	L+ / 24 VDC M / 24 VDC	1M	DI a.0 I2.0	DI a.1 I2.1	DI a.2 I2.2	DI a.3 I2.3	DI a.4 I2.4	DI a.5 I2.5	DI a.6 I2.6	DI a.7 I2.7
CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1
Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4
	Alimentazione 24Vdc 24Vdc Supply	Alimentazione 24Vdc 24Vdc Supply	M03_THM / Termica disoleatore Thermal oil separator	M04_THM / Termica disoleatore Thermal oil separator	M05_THM / Termica catenaria Catenary thermal	M06_THM / Termica catenaria Catenary thermal	MX01_THM / Termica mixer Mixer Thermal	MX02_THM / Termica mixer Mixer Thermal	PD01_THM / Termica pompa dosatrice Dosing pump Thermal	PD02_THM / Termica pompa dosatrice Dosing pump Thermal

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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DOCUMENT: Schema Elettrico
Electrical Drawing

INGRESSI DIGITALI [200A1]
DIGITAL INPUTS [200A1]

QESLR

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214.9 **101M** A1 — ⎓ 24 V DC (M) [DBU]

214.9 **103L+** A1 — ⎓ 24 V DC (L+) [DBU]

24QF3 13 / 14	**20QF2** 13 / 14	**20QF4** 13 / 14	**21QF2** 13 / 14						
24.8 PROT. DOSATORE [Pd3] DOSING PROTECTION [Pd3]	20.4 PROTEZIONE POMPA [P02] PUMP PROTECTION [P02]	20.8 PROTEZIONE POMPA [P04] PUMP PROTECTION [P04]	21.4 PROT. POMPA [P06] PUMP PROTECTION [P06]						
	20QF1 13 / 14	**20QF3** 13 / 14		**21QF1** 13 / 14		**21QF3** 13 / 14			
	20.2 PROTEZIONE POMPA [P01] PUMP PROTECTION [P01]	20.6 PROTEZIONE POMPA [P03] PUMP PROTECTION [P03]		21.2 PROT. POMPA [P05] PUMP PROTECTION [P05]		21.6 PROT. POMPA [P07] PUMP PROTECTION [P07]			
I3.0	I3.1	I3.2	I3.3	I3.4	I3.5	I3.6	I3.7		

X11/3 2M	X11/4 DI b.0	X11/5 DI b.1	X11/6 DI b.2	X11/7 DI b.3	X11/8 DI b.4	X11/9 DI b.5	X11/10 DI b.6	X11/11 DI b.7
	I3.0	I3.1	I3.2	I3.3	I3.4	I3.5	I3.6	I3.7
CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1	CPU 1214C MOD. 1
Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4	Name: 200A1 Sheet: 200.4
Alimentazione 24Vdc 24Vdc Supply	PD03_THM / Termica pompa dosatrice Dosing pump Thermal	P01_THM / Termica pompa di lavaggio Washing pump Thermal	P02_THM / Termica pompa di lavaggio Washing pump Thermal	P03_THM / Termica pompa di lavaggio Washing pump Thermal	P04_THM / Termica pompa di lavaggio Washing pump Thermal	P05_THM / Termica pompa di travaso Transfer pump Thermal	P06_THM / Termica pompa di svuotamento Emptying pump Thermal	P07_THM / Termica pompa di lavaggio scorta Spare waching pump Thermal

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
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DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

INGRESSI DIGITALI [200A1]
DIGITAL INPUTS [200A1]

QESLR

Sheet 215 | Next Sheet 216

Alimentazione 24Vdc 24Vdc Supply		M03_CMD / Uscita comando disoleatore Oil separator control output		M04_CMD / Uscita comando disoleatore Oil separator control output		M05_CMD / Uscita comando catenaria Catenary control output		M06_CMD / Uscita comando catenaria Catenary control output		Alimentazione 24Vdc 24Vdc Supply		MX01_CMD / Uscita comando mixer Mixer control output		MX02_CMD / Uscita comando mixer Mixer control output		PD01_CMD / Uscita comando pompa dosatrice Dosing pump control output		PD02_CMD / Uscita comando pompa dosatrice Dosing pump control output	
Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4
CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1
1L X12/1		Q2.0 DQ a.0 X12/2		Q2.1 DQ a.1 X12/3		Q2.2 DQ a.2 X12/4		Q2.3 DQ a.3 X12/5		2L X12/7		Q2.4 DQ a.4 X12/8		Q2.5 DQ a.5 X12/9		Q2.6 DQ a.6 X12/10		Q2.7 DQ a.7 X12/11	

Q2.0 Q2.1 Q2.2 Q2.3 Q2.4 Q2.5 Q2.6 Q2.7

219KM4 A1 A2 | 219KM5 A1 A2 | 216KM2 A1 A2 | 216KM3 A1 A2 | 216KM4 A1 A2 | 216KM5 A1 A2 | 216KM6 A1 A2 | 216KM7 A1 A2

110.2 110L+ A1 — ⎓ 24 V DC (L+) [DBU] — 110L+ A1 217.0

110.3 110M A1 — ⎓ 24 V DC (M) [DBU] — 110M A1 217.0

Comando disoleatore M03 Oil separator control M03	Comando disoleatore M04 Oil separator control M04	Comando Catenaria M05 Catenary control M05	Comando Catenaria M06 Catenary control M06	Comando Mixer MX01 Mixer control MX01	Comando Mixer MX02 Mixer control MX02	Comando Pompa Dosatrice Pd1 Dosing pump control Pd1	Comando Pompa Dosatrice Pd2 Dosing pump control Pd2
22.6 2 1 22.6 4 3 22.6 6 5 14 13	22.8 2 1 22.8 4 3 22.8 6 5 14 13	23.2 2 1 23.2 4 3 23.2 6 5 14 13	23.4 2 1 23.4 4 3 23.4 6 5 14 13	22.2 2 1 22.2 4 3 22.2 6 5 14 13	22.4 2 1 22.4 4 3 22.4 6 5 14 13	24.2 11 12 14 22 24.2 21 24	24.5 11 12 14 22 24.5 21 24

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

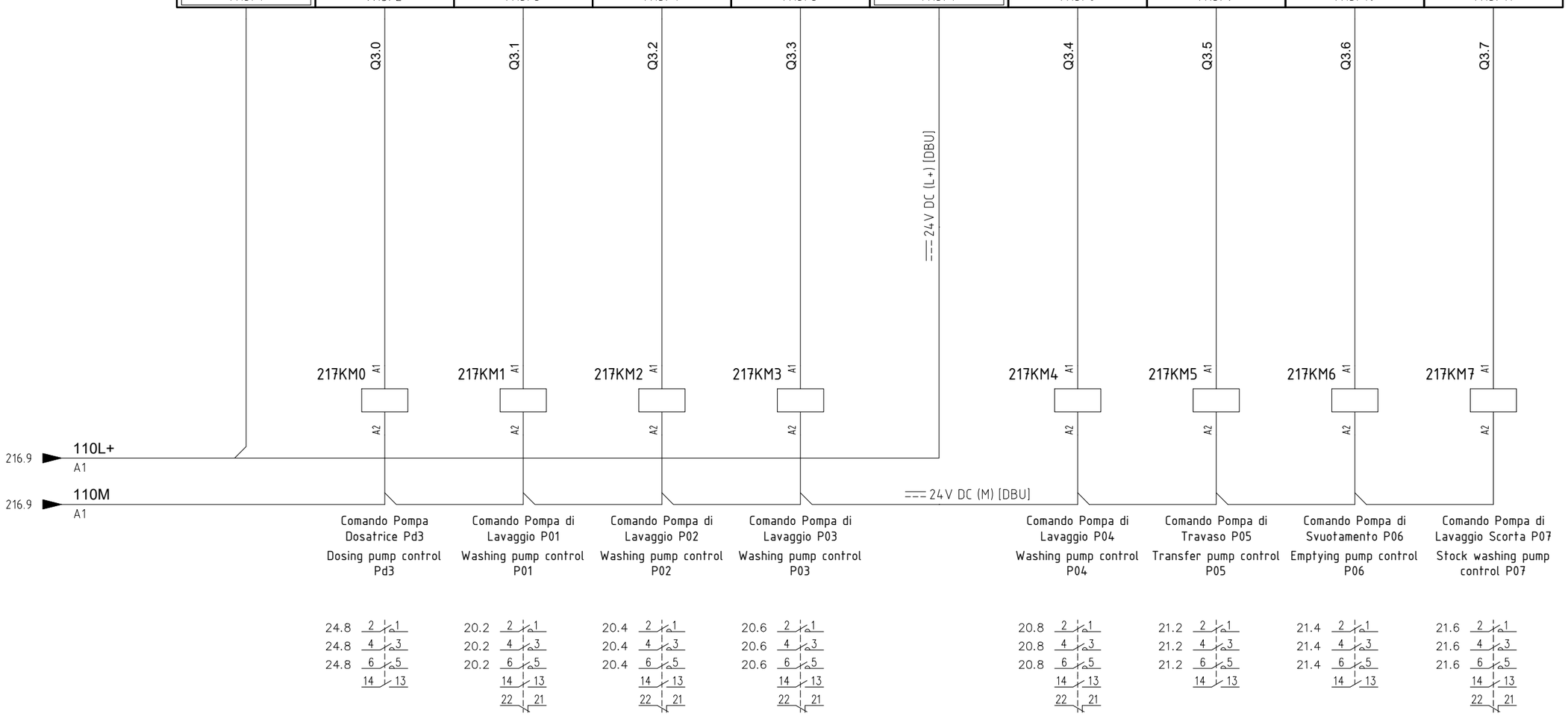
DOCUMENT Schema Elettrico
Electrical Drawing

USCITE DIGITALI [200A1]
DIGITAL OUTPUTS [200A1]

QESLR

Sheet 216
Next Sheet 217

Alimentazione 24Vdc 24Vdc Supply		PD03_CMD / Uscita comando pompa dosatrice Dosing pump control output		P01_CMD / Uscita comando pompa di lavaggio Washing pump control output		P02_CMD / Uscita comando pompa di lavaggio Washing pump control output		P03_CMD / Uscita comando pompa di lavaggio Washing pump control output		Alimentazione 24Vdc 24Vdc Supply		P04_CMD / Uscita comando pompa di lavaggio Washing pump control output		P05_CMD / Uscita comando pompa di travaso Transfer pump control output		P06_CMD / Uscita comando pompa di svuotamento Emptying pump control output		P07_CMD / Uscita comando pompa di lavaggio scorta Spare waching pump control output	
Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4	Name: 200A1	Sheet: 200.4
CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1	CPU 1214C	MOD. 1
3L X13/1		Q3.0 DQ b.0 X13/2		Q3.1 DQ b.1 X13/3		Q3.2 DQ b.2 X13/4		Q3.3 DQ b.3 X13/5		4L X13/7		Q3.4 DQ b.4 X13/8		Q3.5 DQ b.5 X13/9		Q3.6 DQ b.6 X13/10		Q3.7 DQ b.7 X13/11	


Q3.0
Q3.1
Q3.2
Q3.3
Q3.4
Q3.5
Q3.6
Q3.7
=== 24 V DC (L+) [DBU]
217KM0 A1 A2
217KM1 A1 A2
217KM2 A1 A2
217KM3 A1 A2
217KM4 A1 A2
217KM5 A1 A2
217KM6 A1 A2
217KM7 A1 A2
216.9 110L+ A1
216.9 110M A1
=== 24 V DC (M) [DBU]
Comando Pompa Dosatrice Pd3
Dosing pump control Pd3
Comando Pompa di Lavaggio P01
Washing pump control P01
Comando Pompa di Lavaggio P02
Washing pump control P02
Comando Pompa di Lavaggio P03
Washing pump control P03
Comando Pompa di Lavaggio P04
Washing pump control P04
Comando Pompa di Travaso P05
Transfer pump control P05
Comando Pompa di Svuotamento P06
Emptying pump control P06
Comando Pompa di Lavaggio Scorta P07
Stock washing pump control P07
24.8 2 1 4 3 6 5 14 13
20.2 2 1 4 3 6 5 14 13 22 21
20.4 2 1 4 3 6 5 14 13 22 21
20.6 2 1 4 3 6 5 14 13 22 21
20.8 2 1 4 3 6 5 14 13 22 21
21.2 2 1 4 3 6 5 14 13
21.4 2 1 4 3 6 5 14 13
21.6 2 1 4 3 6 5 14 13 22 21

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
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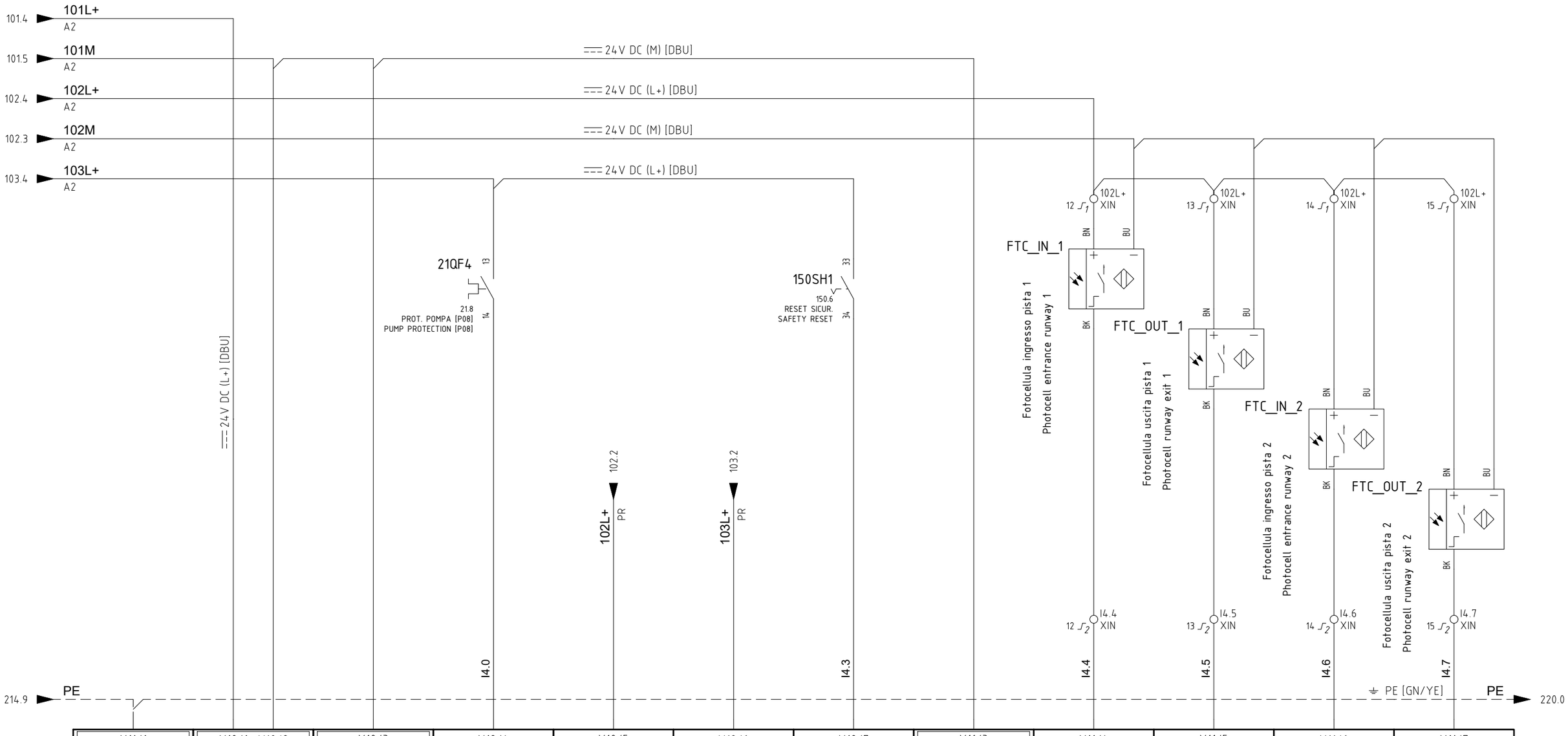
APPR. R.L.

DOCUMENT Schema Elettrico
Electrical Drawing

USCITE DIGITALI [200A1]
DIGITAL OUTPUTS [200A1]

QESLR

Sheet 217
Next Sheet 218



X11/1 GND	X10/1 X10/2 L+ / 24 VDC M / 24 VDC	X10/3 1M	X10/4 DI a.0	X10/5 DI a.1	X10/6 DI a.2	X10/7 DI a.3	X11/3 2M	X11/4 DI a.4	X11/5 DI a.5	X11/6 DI a.6	X11/7 DI a.7
			14.0	14.1	14.2	14.3		14.4	14.5	14.6	14.7
CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2	CPU 1214C MOD. 2
Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5	Name: 200A2 Sheet: 200.5
	Alimentazione 24Vdc 24Vdc Supply	Alimentazione 24Vdc 24Vdc Supply	P08_THM / Termica pompa di lavaggio scorta Spare waching pump Thermal	Presenza tensione Utenze in Campo Presence of voltage Utilities in the field	Presenza Tensione Utenze in Quadro Presence of voltage Utilities in the field	PLS_RESET / Pulsante reset su quadro Reset button on panel	Alimentazione 24Vdc 24Vdc Supply	FTC_IN_1 / Fotocellula ingresso pista 1 Photocell entrance runway 1	FTC_OUT_1 / Fotocellula uscita uscita 1 Photocell runway exit 1	FTC_IN_2 / Fotocellula ingresso pista 2 Photocell entrance runway 2	FTC_OUT_2 / Fotocellula uscita uscita 2 Photocell runway exit 2

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
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FILE QESLR.dwg
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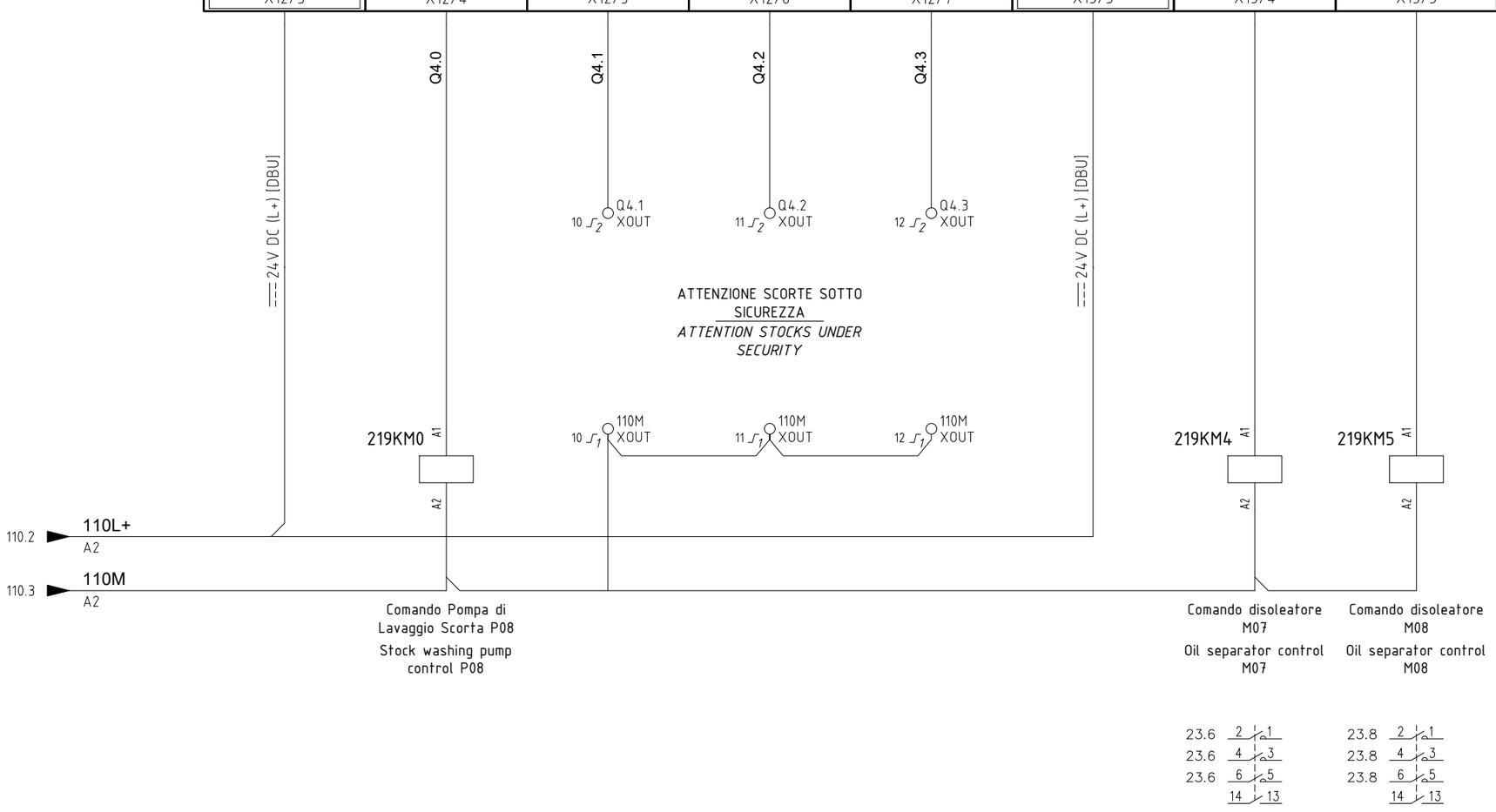
Electrical Drawing

INGRESSI DIGITALI [200A2]
DIGITAL INPUTS [200A2]

QESLR

Sheet 218
Next Sheet 219

Alimentazione 24Vdc 24Vdc Supply		P08_CMD / Uscita comando pompa di lavaggio scorta Spare waching pump control output		Scorta Spare		Scorta Spare		Scorta Spare		Alimentazione 24Vdc 24Vdc Supply		M07_CMD / Uscita comando disoleatore Oil separator control output		M08_CMD / Uscita comando disoleatore Oil separator control output		Scorta Spare		Scorta Spare	
Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5	Name: 200A2	Sheet: 200.5
CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2	CPU 1214C	MOD. 2
		Q4.0		Q4.1		Q4.2		Q4.3				Q4.4		Q4.5		Q4.6		Q4.7	
1L X12/3		DQ a.0 X12/4		DQ a.1 X12/5		DQ a.2 X12/6		DQ a.3 X12/7		2L X13/3		DQ a.4 X13/4		DQ a.5 X13/5		DQ a.6 X13/6		DQ a.7 X13/7	



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Electrical Drawing

USCITE DIGITALI [200A2]
DIGITAL OUTPUTS [200A2]

QESLR

Sheet 219
Next Sheet 220

101.4 **101L+** A3 — 24V DC (L+) [DBU] — **101L+** A3 → 221.0

101.5 **101M** A3 — 24V DC (M) [DBU]

102.4 **102L+** A3 — 24V DC (L+) [DBU]

103.4 **103L+** A3 — 24V DC (L+) [DBU]

18 102L+ XIN · 19 102L+ XIN · 20 102L+ XIN

103L+ → 430.4 → **430.1**

103L+ → 10.8 → **430.2**

23QF3 13/14 — 23.6 PROT. DISOLEATORE [M-07] OIL SEPAR. PROTECTION [M-07] → 10.8 → **I5.2**

23QF4 13/14 — 23.8 PROT. DISOLEATORE [M-08] OIL SEPAR. PROTECTION [M-08] → **I5.4**

I5.3

18 I5.5 XIN · 19 I5.6 XIN · 20 I5.7 XIN

I5.5 · **I5.6** · **I5.7**

218.9 PE ⏚ PE [GN/YE] — PE → 430.3

X11/1 GND	X10/1 X10/2 L+ / 24 VDC M / 24 VDC	X10/3 1M	X10/4 DI a.0 I5.0	X10/5 DI a.1 I5.1	X10/6 DI a.2 I5.2	X10/7 DI a.3 I5.3	X11/3 2M	X11/4 DI a.4 I5.4	X11/5 DI a.5 I5.5	X11/6 DI a.6 I5.6	X11/7 DI a.7 I5.7
CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3
Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6
	Alimentazione 24Vdc 24Vdc Supply	Alimentazione 24Vdc 24Vdc Supply	PH_HL / Livello PH Alto High PH level	PH_LL / Livello PH Basso Low PH level	CF / Controllo Fasi Phse Control	M07_THM / Termica disoleatore Thermal oil separator	Alimentazione 24Vdc 24Vdc Supply	M08_THM / Termica disoleatore Thermal oil separator	Scorta Spare	Scorta Spare	Scorta Spare

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
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FILE QESLR.dwg
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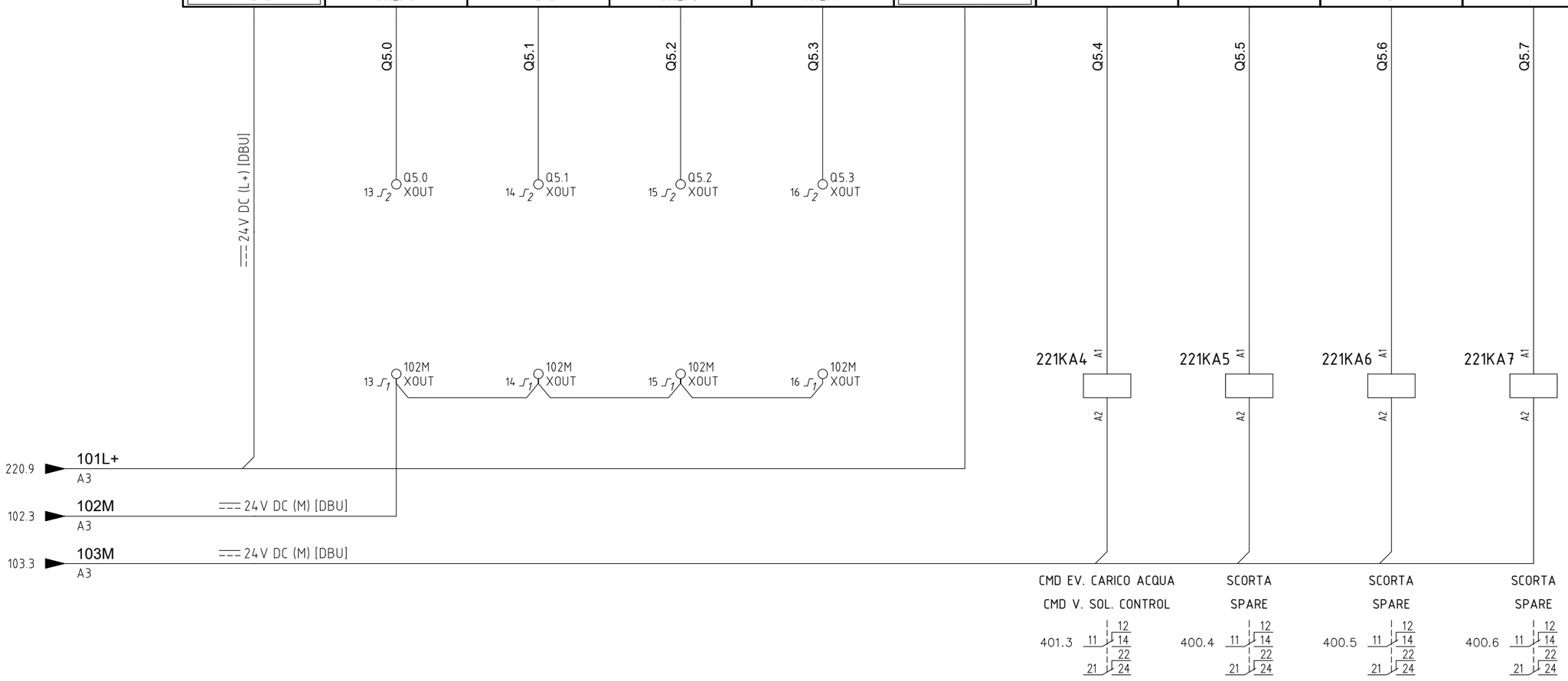
DOCUMENT: Schema Elettrico
Electrical Drawing

INGRESSI DIGITALI [200A3]
DIGITAL INPUTS [200A3]

QESLR

Sheet 220 | Next Sheet 221

Alimentazione 24Vdc	Scorta	Scorta	Scorta	Scorta	Alimentazione 24Vdc	Comando Elettrovalvola carico Acqua	Scorta	Scorta	Scorta
24Vdc Supply	Spare	Spare	Spare	Spare	24Vdc Supply	Water fill solenoid valve control	Spare	Spare	Spare
Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6	Name: 200A3 Sheet: 200.6
CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3	CPU 1214C MOD. 3
1L X12/3	Q5.0 DQ a.0 X12/4	Q5.1 DQ a.1 X12/5	Q5.2 DQ a.2 X12/6	Q5.3 DQ a.3 X12/7	2L X13/3	Q5.4 DQ a.4 X13/4	Q5.5 DQ a.5 X13/5	Q5.6 DQ a.6 X13/6	Q5.7 DQ a.7 X13/7



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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DATE 04.05.2023
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FILE QESLR.dwg
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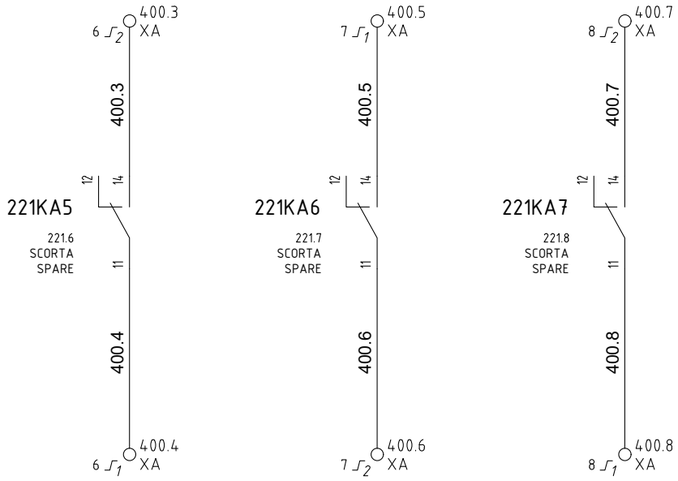
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

USCITE DIGITALI [200A3]
DIGITAL OUTPUTS [200A3]

QESLR

Sheet 221
Next Sheet 400



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Camposampiero (PD)

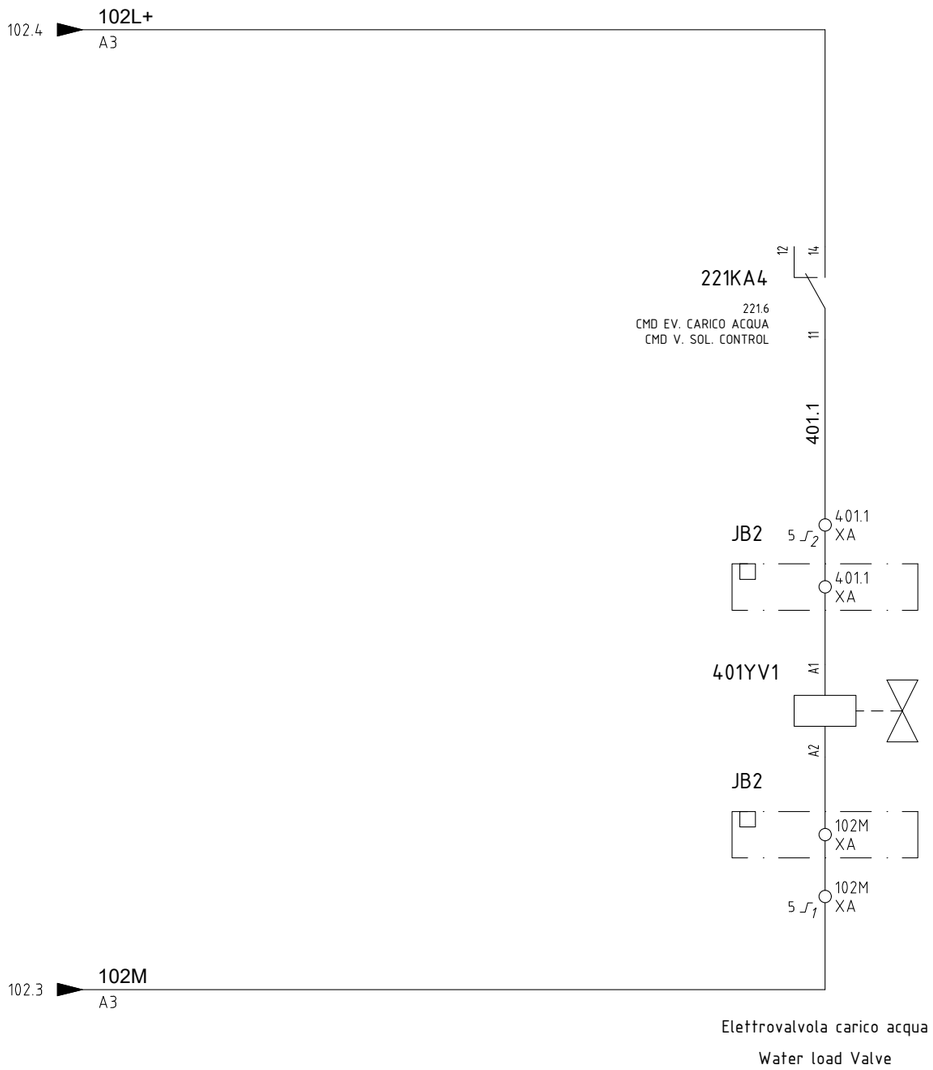
DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

CONSENSI / SEGNALI AL CAMPO (SCORTA)
CONSENTS / SIGNALS TO THE FIELD (SPARE)

QESLR

Sheet 400
Next Sheet 401



Elettrovalvola carico acqua

Water load Valve

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
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Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
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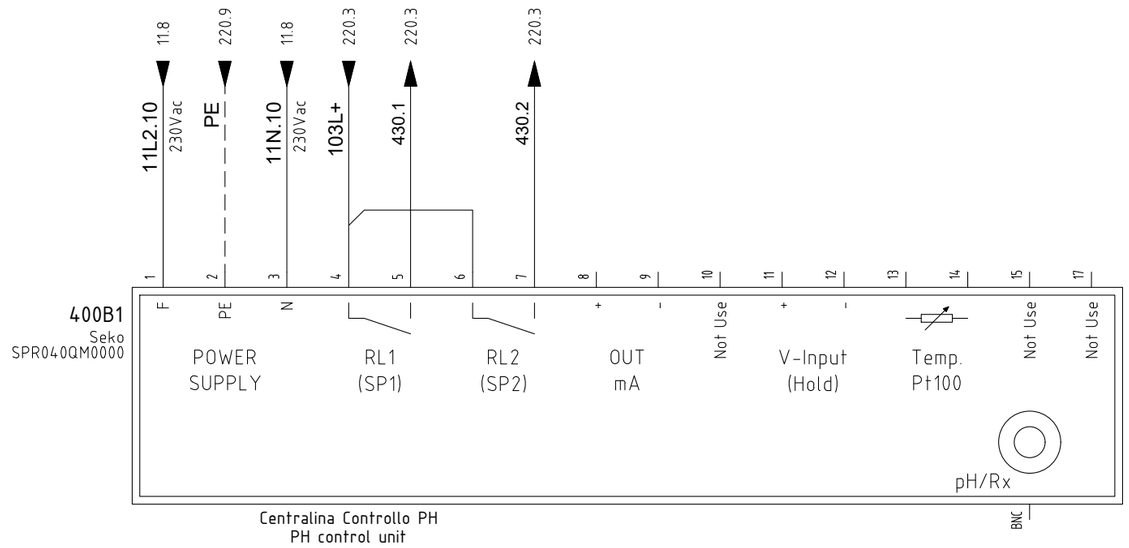
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

CIRCUTIO AUSILIARIO
AUXILIARY CIRCUIT

QESLR

Sheet 401
Next Sheet 430



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
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DOCUMENT: Schema Elettrico
Electrical Drawing

CENTRALINA CONTROLLO PH
PH CONTROL UNIT

QESLR

Sheet 430
Next Sheet 500

El. Board: +QESLR Sign: 200D1

CPU: 1214C Rack: RACK1 Slot: 0

Builder: Siemens Series: S7_1200

Model: 6ES7214-1HG40-0XB0

Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X10/1	L+ / 24 VDC		Alimentazione 24Vdc	24Vdc Supply		210
X10/2	M / 24 VDC					
X10/3	P.E.					
X10/4	L+ / 24 VDC Sensor Out					
X10/5	M / 24 VDC Sensor Out					
X10/6	1M		Alimentazione 24Vdc	24Vdc Supply		210
X10/7	DI a.0	I0.0	LC01 / Livello controllo pompa P05	Pump control level P05	LC01	210
X10/8	DI a.1	I0.1	LC02 / Livello troppo pieno vasca 1	Overflow tank level 1	LC02	210
X10/9	DI a.2	I0.2	LC03 / Livello basso sicurezza pompe lavaggio	Low safety level washing pumps	LC03	210
X10/10	DI a.3	I0.3	LC04 / Livello troppo pieno vasca pompe V3	Overflow level tank pumps V3	LC04	210
X10/11	DI a.4	I0.4	LC05 / Livello carico acqua	Water load level	LC05	210
X10/12	DI a.5	I0.5	LC06 / Livello minimo sicurezza PD01	Minimum security level PD01	LC06	210
X10/13	DI a.6	I0.6	LC07 / Livello minimo sicurezza PD02	Minimum Security Level PD02	LC07	210
X10/14	DI a.7	I0.7	LC08 / Livello minimo sicurezza PD03	Minimum Security Level PD03	LC08	210
X10/15	DI b.0	I1.0	EM_SC / Emergenza Intervenuta	Emergency intervened	150KM2	211
X10/16	DI b.1	I1.1	TSH / Termostato alta temperatura Box	Box High temperature thermostat	TSH	211
X10/17	DI b.2	I1.2	PLS_START / Pulsante start su quadro	Plant Start	211SB2	211
X10/18	DI b.3	I1.3	PLS_STOP / Pulsante stop su quadro	Plant Stop	211SB3	211
X10/19	DI b.4	I1.4	PLS_START_M05 / Pulsante start catenaria 1	Catenary 1 Start	211SB4	211
X10/20	DI b.5	I1.5	PLS_START_M06 / Pulsante start catenaria 2	Catenary 2 Start	211SB5	211
X11/1	2 M		Alimentazione 24Vdc	24Vdc Supply		211
X11/2	AI 0	IW100	Scorta	Spare		211
X11/3	AI 1	IW102	Scorta	Spare		211
X12/1	1L		Alimentazione 24Vdc	24Vdc Supply		212
X12/2	DQ a.0	Q0.0	STR_IMP / Luce Start Impianto	Light Start Plant	212KM0	212
X12/3	DQ a.1	Q0.1	LTR1 / Luce Verde Torrino	Green Light 1	212HL1	212
X12/4	DQ a.2	Q0.2	LTV2 / Luce Rossa Torrino	Red Light 1	212HL2	212
X12/5	DQ a.3	Q0.3	LTR3 / Luce Verde Torrino	Green Light 2		212
X12/6	DQ a.4	Q0.4	LTV4 / Luce Rossa Torrino	Red Light 2		212
X12/7	2L		Alimentazione 24Vdc	24Vdc Supply		213
X12/8	DQ a.5	Q0.5	Scorta	Spare		213
X12/9	DQ a.6	Q0.6	Scorta	Spare		213

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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DOCUMENT Schema Elettrico
Electrical Drawing

RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

Sheet 500
Next Sheet 501

El. Board: +QESLR Sign: 200D1						
CPU: 1214C Rack: RACK1 Slot: 0						
Builder: Siemens Series: S7_1200						
Model: 6ES7214-1HG40-0XB0						
Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X12/10	DQ a.7	Q0.7	Scorta	Spare		213
X12/11	DQ b.0	Q1.0	Scorta	Spare		213
X12/12	DQ b.1	Q1.1	Scorta	Spare		213
X1/	Ethernet port		Ethernet port			210

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

Sheet 501
Next Sheet 502

El. Board: +QESLR Sign: 200A1

CPU: 1214C Rack: RACK1 Slot: 1

Builder: Siemens Series: S7_1200

Model: 6ES7223-1PL32-0XB0

Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X10/1	L+ / 24 VDC		Alimentazione 24Vdc	24Vdc Supply		214
X10/2	M / 24 VDC					
X10/3	1M		Alimentazione 24Vdc	24Vdc Supply		214
X10/4	DI a.0	I2.0	M03_THM / Termica disoleatore	Thermal oil separator	22QF3	214
X10/5	DI a.1	I2.1	M04_THM / Termica disoleatore	Thermal oil separator	22QF4	214
X10/6	DI a.2	I2.2	M05_THM / Termica catenaria	Catenary thermal	23QF1	214
X10/7	DI a.3	I2.3	M06_THM / Termica catenaria	Catenary thermal	23QF2	214
X10/8	DI a.4	I2.4	MX01_THM / Termica mixer	Mixer Thermal	22QF1	214
X10/9	DI a.5	I2.5	MX02_THM / Termica mixer	Mixer Thermal	22QF2	214
X10/10	DI a.6	I2.6	PD01_THM / Termica pompa dosatrice	Dosing pump Thermal	24QF1	214
X10/11	DI a.7	I2.7	PD02_THM / Termica pompa dosatrice	Dosing pump Thermal	24QF2	214
X11/1	GND					214
X11/3	2M		Alimentazione 24Vdc	24Vdc Supply		215
X11/4	DI b.0	I3.0	PD03_THM / Termica pompa dosatrice	Dosing pump Thermal	24QF3	215
X11/5	DI b.1	I3.1	P01_THM / Termica pompa di lavaggio	Washing pump Thermal	20QF1	215
X11/6	DI b.2	I3.2	P02_THM / Termica pompa di lavaggio	Washing pump Thermal	20QF2	215
X11/7	DI b.3	I3.3	P03_THM / Termica pompa di lavaggio	Washing pump Thermal	20QF3	215
X11/8	DI b.4	I3.4	P04_THM / Termica pompa di lavaggio	Washing pump Thermal	20QF4	215
X11/9	DI b.5	I3.5	P05_THM / Termica pompa di travaso	Transfer pump Thermal	21QF1	215
X11/10	DI b.6	I3.6	P06_THM / Termica pompa di svuotamento	Emptying pump Thermal	21QF2	215
X11/11	DI b.7	I3.7	P07_THM / Termica pompa di lavaggio scorta	Spare waching pump Thermal	21QF3	215
X12/1	1L		Alimentazione 24Vdc	24Vdc Supply		216
X12/2	DQ a.0	Q2.0	M03_CMD / Uscita comando disoleatore	Oil separator control output	216KM0	216
X12/3	DQ a.1	Q2.1	M04_CMD / Uscita comando disoleatore	Oil separator control output	216KM1	216
X12/4	DQ a.2	Q2.2	M05_CMD / Uscita comando catenaria	Catenary control output	216KM2	216
X12/5	DQ a.3	Q2.3	M06_CMD / Uscita comando catenaria	Catenary control output	216KM3	216
X12/7	2L		Alimentazione 24Vdc	24Vdc Supply		216
X12/8	DQ a.4	Q2.4	MX01_CMD / Uscita comando mixer	Mixer control output	216KM4	216
X12/9	DQ a.5	Q2.5	MX02_CMD / Uscita comando mixer	Mixer control output	216KM5	216
X12/10	DQ a.6	Q2.6	PD01_CMD / Uscita comando pompa dosatrice	Dosing pump control output	216KM6	216
X12/11	DQ a.7	Q2.7	PD02_CMD / Uscita comando pompa dosatrice	Dosing pump control output	216KM7	216
X13/1	3L		Alimentazione 24Vdc	24Vdc Supply		217

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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DOCUMENT Schema Elettrico
Electrical Drawing

RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

Sheet 502
Next Sheet 503

El. Board: +QESLR Sign: 200A1						
CPU: 1214C Rack: RACK1 Slot: 1						
Builder: Siemens Series: S7_1200						
Model: 6ES7223-1PL32-0XB0						
Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X13/2	DQ b.0	Q3.0	PD03_CMD / Uscita comando pompa dosatrice	Dosing pump control output	217KM0	217
X13/3	DQ b.1	Q3.1	P01_CMD / Uscita comando pompa di lavaggio	Washing pump control output	217KM1	217
X13/4	DQ b.2	Q3.2	P02_CMD / Uscita comando pompa di lavaggio	Washing pump control output	217KM2	217
X13/5	DQ b.3	Q3.3	P03_CMD / Uscita comando pompa di lavaggio	Washing pump control output	217KM3	217
X13/7	4L		Alimentazione 24Vdc	24Vdc Supply		217
X13/8	DQ b.4	Q3.4	P04_CMD / Uscita comando pompa di lavaggio	Washing pump control output	217KM4	217
X13/9	DQ b.5	Q3.5	P05_CMD / Uscita comando pompa di travaso	Transfer pump control output	217KM5	217
X13/10	DQ b.6	Q3.6	P06_CMD / Uscita comando pompa di svuotamento	Emptying pump control output	217KM6	217
X13/11	DQ b.7	Q3.7	P07_CMD / Uscita comando pompa di lavaggio scorta	Spare waching pump control output	217KM7	217

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

Sheet 503
Next Sheet 504

El. Board: +QESLR Sign: 200A2

CPU: 1214C Rack: RACK1 Slot: 2

Builder: Siemens Series: S7_1200

Model: 6ES7223-1PH32-0XB0

Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X10/1	L+ / 24 VDC		Alimentazione 24Vdc	24Vdc Supply		218
X10/2	M / 24 VDC					
X10/3	1M		Alimentazione 24Vdc	24Vdc Supply		218
X10/4	DI a.0	I4.0	P08_THM / Termica pompa di lavaggio scorta	Spare waching pump Thermal	21QF4	218
X10/5	DI a.1	I4.1	Presenza tensione Utenze in Campo	Presence of voltage Utilities in the field		218
X10/6	DI a.2	I4.2	Presenza Tensione Utenze in Quadro	Presence of voltage Utilities in the field	400B1	218
X10/7	DI a.3	I4.3	PLS_RESET / Pulsante reset su quadro	Reset button on panel	218SB3	218
X11/1	GND					218
X11/3	2M		Alimentazione 24Vdc	24Vdc Supply		218
X11/4	DI a.4	I4.4	FTC_IN_1 / Fotocellula ingresso pista 1	Photocell entrance runway 1	FTC_IN_1	218
X11/5	DI a.5	I4.5	FTC_OUT_1 / Fotocellula uscita uscita 1	Photocell runway exit 1	FTC_OUT_1	218
X11/6	DI a.6	I4.6	FTC_IN_2 / Fotocellula ingresso pista 2	Photocell entrance runway 2	FTC_IN_2	218
X11/7	DI a.7	I4.7	FTC_OUT_2 / Fotocellula uscita uscita 2	Photocell runway exit 2	FTC_OUT_2	218
X12/3	1L		Alimentazione 24Vdc	24Vdc Supply		219
X12/4	DQ a.0	Q4.0	P08_CMD / Uscita comando pompa di lavaggio scorta	Spare waching pump control output	219KM0	219
X12/5	DQ a.1	Q4.1	Scorta	Spare		219
X12/6	DQ a.2	Q4.2	Scorta	Spare		219
X12/7	DQ a.3	Q4.3	Scorta	Spare		219
X13/3	2L		Alimentazione 24Vdc	24Vdc Supply		219
X13/4	DQ a.4	Q4.4	M07_CMD / Uscita comando disoleatore	Oil separator control output		219
X13/5	DQ a.5	Q4.5	M08_CMD / Uscita comando disoleatore	Oil separator control output		219
X13/6	DQ a.6	Q4.6	Scorta	Spare		219
X13/7	DQ a.7	Q4.7	Scorta	Spare		219

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

Sheet 504
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El. Board: +QESLR Sign: 200A3

CPU: 1214C Rack: RACK1 Slot: 3

Builder: Siemens Series: S7_1200

Model: 6ES7223-1PH32-0XB0

Pin	Description Pin	Address	Comment (ITA)	Comment (ENG)	Mnemonic	Sheet
X10/1	L+ / 24 VDC		Alimentazione 24Vdc	24Vdc Supply		220
X10/2	M / 24 VDC					
X10/3	1M		Alimentazione 24Vdc	24Vdc Supply		220
X10/4	DI a.0	I5.0	PH_HL / Livello PH Alto	High PH level	400B1	220
X10/5	DI a.1	I5.1	PH_LL / Livello PH Basso	Low PH level	400B1	220
X10/6	DI a.2	I5.2	CF / Controllo Fasi	Phse Control	10CF2	220
X10/7	DI a.3	I5.3	M07_THM / Termica disoleatore	Thermal oil separator		220
X11/1	GND					220
X11/3	2M		Alimentazione 24Vdc	24Vdc Supply		220
X11/4	DI a.4	I5.4	M08_THM / Termica disoleatore	Thermal oil separator		220
X11/5	DI a.5	I5.5	Scorta	Spare		220
X11/6	DI a.6	I5.6	Scorta	Spare		220
X11/7	DI a.7	I5.7	Scorta	Spare		220
X12/3	1L		Alimentazione 24Vdc	24Vdc Supply		221
X12/4	DQ a.0	Q5.0	Scorta	Spare		221
X12/5	DQ a.1	Q5.1	Scorta	Spare		221
X12/6	DQ a.2	Q5.2	Scorta	Spare		221
X12/7	DQ a.3	Q5.3	Scorta	Spare		221
X13/3	2L		Alimentazione 24Vdc	24Vdc Supply		221
X13/4	DQ a.4	Q5.4	Comando Elettrovalvola carico Acqua	Water fill solenoid valve control	221KA4	221
X13/5	DQ a.5	Q5.5	Scorta	Spare	221KA5	221
X13/6	DQ a.6	Q5.6	Scorta	Spare	221KA6	221
X13/7	DQ a.7	Q5.7	Scorta	Spare	221KA7	221

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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Electrical Drawing

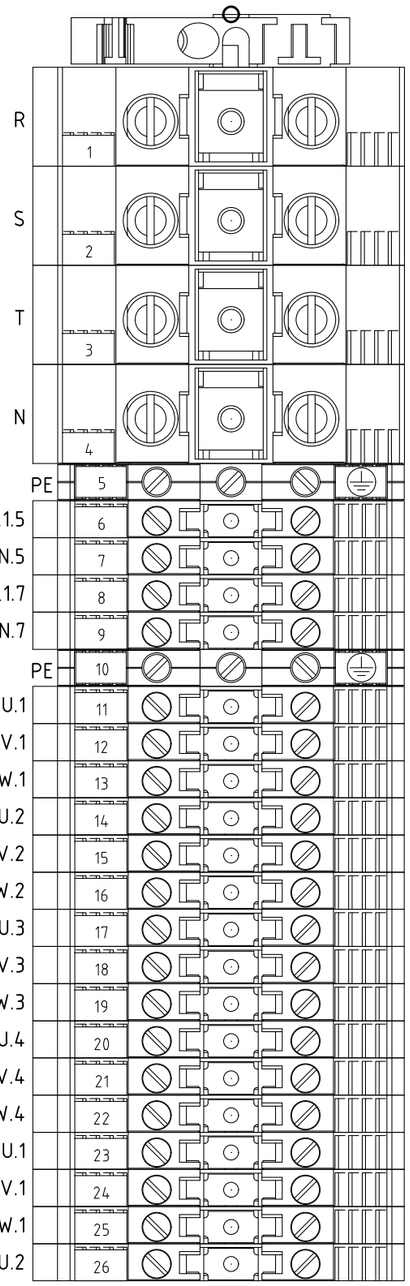
RIASSUNTIVI PLC
PLC SUMMARIES

QESLR

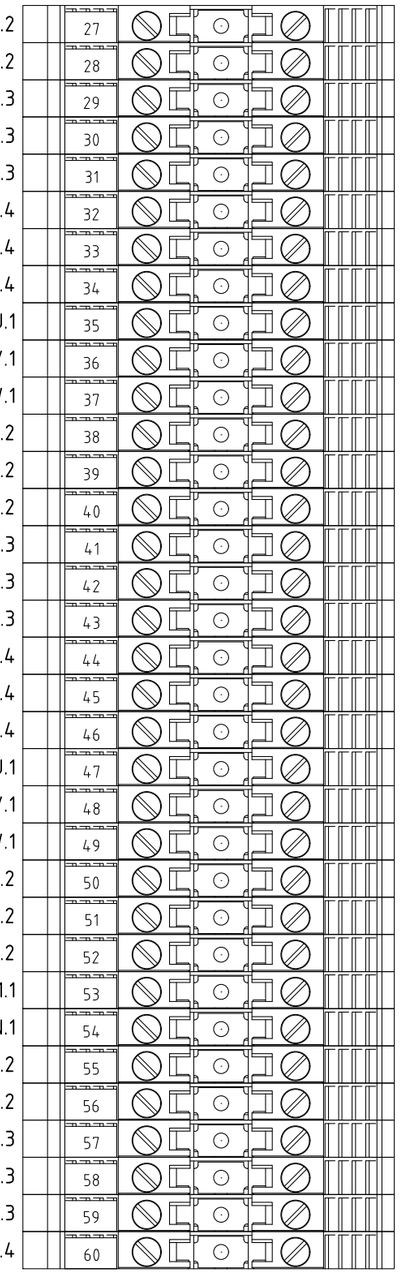
Sheet 505
Next Sheet 600

+QESLR - XP

TERMINAL BLOCK [XP]



R	1	R	Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE
S	2	S	Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE
T	3	T	Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE
N	4	N	Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE
PE	5	PE	Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE
11L1.5	6	11L1.5	+QESLR!11XS6§L
11N.5	7	11N.5	+QESLR!11XS6§N
11L1.7	8	11L1.7	+QESLR!11SB9§13
11N.7	9	11N.7	+QESLR!11SB9§14
PE	10	PE	+QESLR!11XS6§PE
20U.1	11	20U.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20V.1	12	20V.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20W.1	13	20W.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20U.2	14	20U.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20V.2	15	20V.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20W.2	16	20W.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20U.3	17	20U.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20V.3	18	20V.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20W.3	19	20W.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20U.4	20	20U.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
20V.4	21	20V.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
20W.4	22	20W.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
21U.1	23	21U.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21V.1	24	21V.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21W.1	25	21W.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21U.2	26	21U.2	Svuotamento vasca di chiarificazione - Clarification tank empting



21V.2	27	21V.2	Svuotamento vasca di chiarificazione - Clarification tank empting
21W.2	28	21W.2	Svuotamento vasca di chiarificazione - Clarification tank empting
21U.3	29	21U.3	Pompa di lavaggio di ricambio - Spare washing pump
21V.3	30	21V.3	Pompa di lavaggio di ricambio - Spare washing pump
21W.3	31	21W.3	Pompa di lavaggio di ricambio - Spare washing pump
21U.4	32	21U.4	Pompa di lavaggio di ricambio - Spare washing pump
21V.4	33	21V.4	Pompa di lavaggio di ricambio - Spare washing pump
21W.4	34	21W.4	Pompa di lavaggio di ricambio - Spare washing pump
22U.1	35	22U.1	Miscelatore prodotti chimici - Improve mixing of chemicals
22V.1	36	22V.1	Miscelatore prodotti chimici - Improve mixing of chemicals
22W.1	37	22W.1	Miscelatore prodotti chimici - Improve mixing of chemicals
22U.2	38	22U.2	Miscelatore prodotti chimici - Improve mixing of chemicals
22V.2	39	22V.2	Miscelatore prodotti chimici - Improve mixing of chemicals
22W.2	40	22W.2	Miscelatore prodotti chimici - Improve mixing of chemicals
22U.3	41	22U.3	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
22V.3	42	22V.3	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
22W.3	43	22W.3	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
22U.4	44	22U.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
22V.4	45	22V.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
22W.4	46	22W.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23U.1	47	23U.1	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
23V.1	48	23V.1	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
23W.1	49	23W.1	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
23U.2	50	23U.2	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
23V.2	51	23V.2	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
23W.2	52	23W.2	Rimozione dei fanghi dalla vasca di chiarificazione - Sludge removal from clarification tank
24L1.1	53	24L1.1	Dosatore Neutralizzante - Dosing of neutralizing product
24N.1	54	24N.1	Dosatore Neutralizzante - Dosing of neutralizing product
24L2.2	55	24L2.2	Dosatore Coagulante - Dosing of coagulant product
24N.2	56	24N.2	Dosatore Coagulante - Dosing of coagulant product
24U.3	57	24U.3	Dosatore Flocculante - Dosing of flocculant product
24V.3	58	24V.3	Dosatore Flocculante - Dosing of flocculant product
24W.3	59	24W.3	Dosatore Flocculante - Dosing of flocculant product
12L3.4	60	12L3.4	Climatizzazione Container - Container cooling system

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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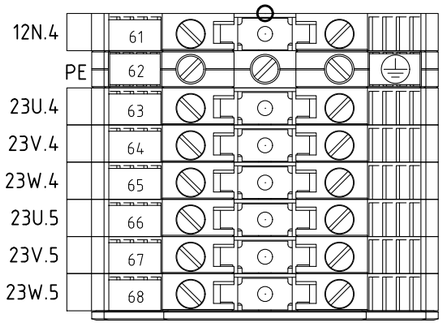
Electrical Drawing

MORSETTIERA [XP]
TERMINAL BLOCK [XP]

QESLR

Sheet 600
Next Sheet 601



12N.4	12N.4	Climatizzazione Container - Container cooling system
PE	PE	Climatizzazione Container - Container cooling system
23U.4	23U.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23V.4	23V.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23W.4	23W.4	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23U.5	23U.5	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23V.5	23V.5	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface
23W.5	23W.5	Rimuovl olio dalla superficie dell'acqua - Remove oil from water surface

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
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Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

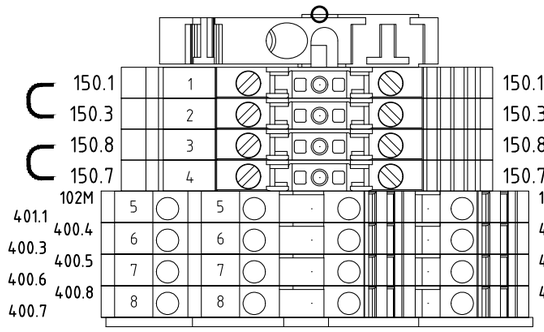
MORSETTIERA [XP]
TERMINAL BLOCK [XP]

QESLR

Sheet 601
Next Sheet 602

+QESLR - XA

TERMINAL BLOCK [XA]



Ponticellare se non utilizzate Jumper if not used	150.1	150.1	Serie arresti di Emergenza (Optional) - Emergency Stop Series (Optional)
	150.3	150.3	Serie arresti di Emergenza (Optional) - Emergency Stop Series (Optional)
Ponticellare se non utilizzate Jumper if not used	150.8	150.8	Serie arresti di Emergenza (Optional) - Emergency Stop Series (Optional)
	150.7	150.7	Serie arresti di Emergenza (Optional) - Emergency Stop Series (Optional)
	102M	102M	Elettrovalvola carico acqua - Water load Valve
	401.1	401.1	Elettrovalvola carico acqua - Water load Valve
	400.4	400.4	Scorta - Spare
	400.3	400.3	Scorta - Spare
	400.5	400.5	Scorta - Spare
	400.6	400.6	Scorta - Spare
	400.8	400.8	Scorta - Spare
	400.7	400.7	Scorta - Spare

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
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DOCUMENT: Schema Elettrico
Electrical Drawing

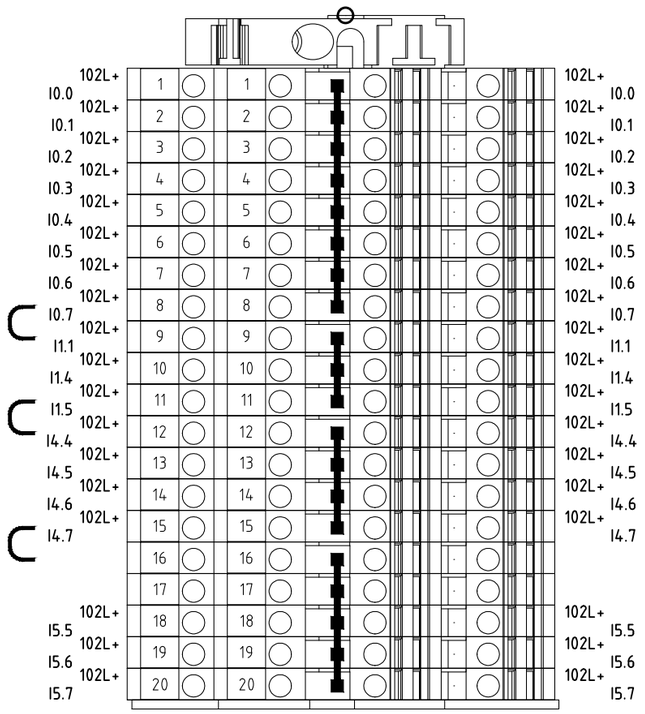
MORSETTIERA [XA]
TERMINAL BLOCK [XA]

QESLR

Sheet 602
Next Sheet 603

+QESLR - XIN

TERMINAL BLOCK [XIN]



Livello controllo pompa P05 - Pump control level P05
Livello controllo pompa P05 - Pump control level P05
Livello troppo pieno vasca 1 - Overflow tank level 1
Livello troppo pieno vasca 1 - Overflow tank level 1
Livello basso sicurezza pompe lavaggio - Low safety level washing pumps
Livello basso sicurezza pompe lavaggio - Low safety level washing pumps
Livello troppo pieno vasca pompe V3 - Overflow level tank pumps V3
Livello troppo pieno vasca pompe V3 - Overflow level tank pumps V3
Livello carico acqua - Water load level
Livello carico acqua - Water load level
Livello minimo sicurezza PD01 - Minimum security level PD01
Livello minimo sicurezza PD01 - Minimum security level PD01
Livello minimo sicurezza PD02 - Minimum Security Level PD02
Livello minimo sicurezza PD02 - Minimum Security Level PD02
Livello minimo sicurezza PD03 - Minimum Security Level PD03
Livello minimo sicurezza PD03 - Minimum Security Level PD03
Termostato alta temperatura box - Box High temperature thermostat
Termostato alta temperatura box - Box High temperature thermostat
Start Catenaria 1 - Catenary 1 Start
Start Catenaria 1 - Catenary 1 Start
Start Catenaria 2 - Catenary 2 Start
Start Catenaria 2 - Catenary 2 Start
Fotocellula ingresso pista 1 - Photocell entrance runway 1
Fotocellula ingresso pista 1 - Photocell entrance runway 1
Fotocellula uscita pista 1 - Photocell runway exit 1
Fotocellula uscita pista 1 - Photocell runway exit 1
Fotocellula ingresso pista 2 - Photocell entrance runway 2
Fotocellula ingresso pista 2 - Photocell entrance runway 2
Fotocellula uscita pista 2 - Photocell runway exit 2
Fotocellula uscita pista 2 - Photocell runway exit 2
Scorta - Spare
Scorta - Spare
Scorta - Spare
Scorta - Spare
Scorta - Spare
Scorta - Spare
Scorta - Spare
Scorta - Spare

REV.	MOD. OBJECT	DATE	SIGNAT.
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00	FIRST EMISSION	12.12.22	M.G.

PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
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DOCUMENT Schema Elettrico
Electrical Drawing

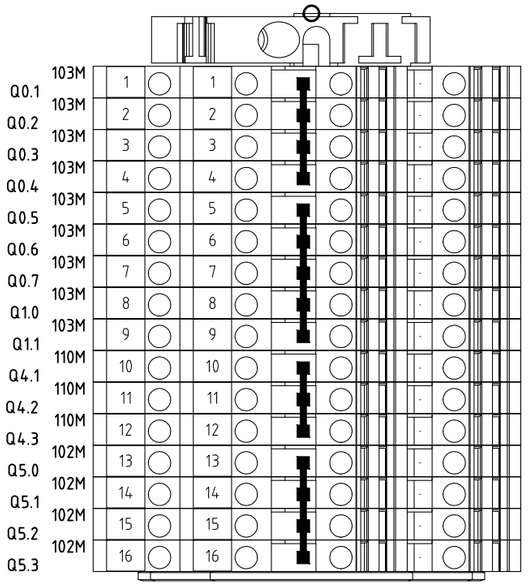
MORSETTIERA [XIN]
TERMINAL BLOCK [XIN]

QESLR

Sheet 603
Next Sheet 604

+QESLR - XOUT

TERMINAL BLOCK [XOUT]



1	103M	Q0.1	103M	Comune Torrino 1
2	103M	Q0.2	103M	Luce Verde Torrino 1 - Tower Green Light 1 Comune Torrino 2
3	103M	Q0.3	103M	Luce Verde Torrino 1 - Tower Green Light 1 Comune Torrino 1
4	103M	Q0.4	103M	Luce Verde Torrino 2 - Tower Green Light 2 Comune Torrino 2
5	103M	Q0.5	103M	Luce Verde Torrino 2 - Tower Green Light 2 Scorta - Spare
6	103M	Q0.6	103M	Scorta - Spare Scorta - Spare
7	103M	Q0.7	103M	Scorta - Spare Scorta - Spare
8	103M	Q1.0	103M	Scorta - Spare Scorta - Spare
9	103M	Q1.1	103M	Scorta - Spare Scorta - Spare (Safety)
10	110M	Q4.1	110M	Scorta - Spare (Safety) Scorta - Spare (Safety)
11	110M	Q4.2	110M	Scorta - Spare (Safety) Scorta - Spare (Safety)
12	110M	Q4.3	110M	Scorta - Spare (Safety) Scorta - Spare
13	102M	Q5.0	102M	Scorta - Spare Scorta - Spare
14	102M	Q5.1	102M	Scorta - Spare Scorta - Spare
15	102M	Q5.2	102M	Scorta - Spare Scorta - Spare
16	102M	Q5.3	102M	Scorta - Spare

REV.	MOD. OBJECT	DATE	SIGNAT.
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Electrical Drawing

MORSETTIERA [XOUT]

TERMINAL BLOCK [XOUT]

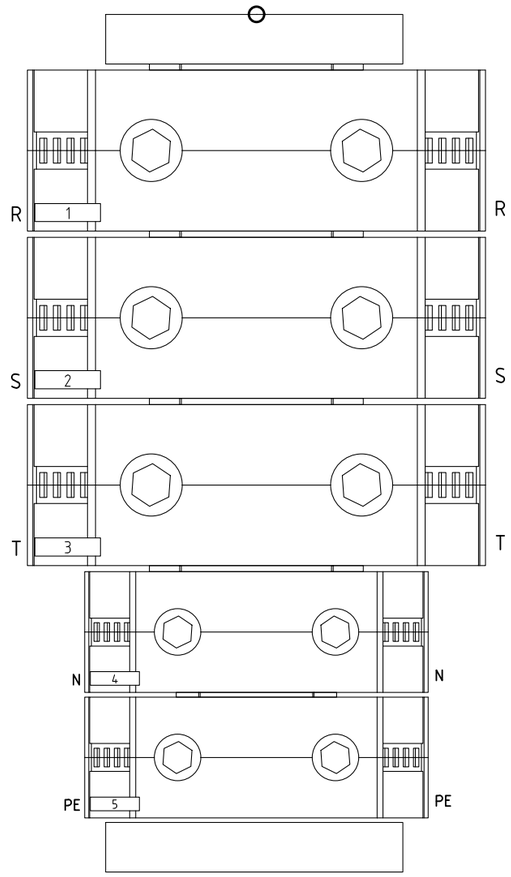
QESLR

Sheet 604

Next Sheet 605

+JB - XJB

TERMINAL BLOCK [XJB]



Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE

Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE

Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE

Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE

Ingresso linea 400V/50Hz - [400V/50Hz] ARRIVAL LINE

W0.
3(1x185)+(1x95)
Cables-ends / M12

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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DOCUMENT Schema Elettrico
Electrical Drawing

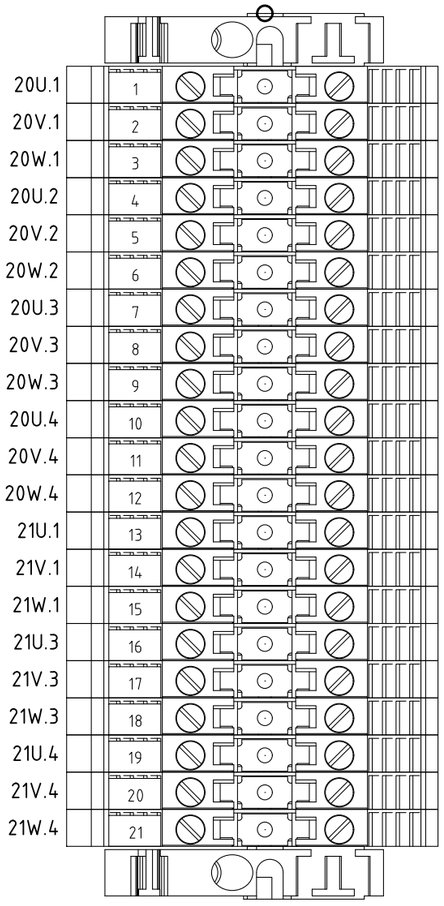
MORSETTIERA [XJB]
TERMINAL BLOCK [XJB]

QESLR

Sheet 605
Next Sheet 610

+JB2 - XP

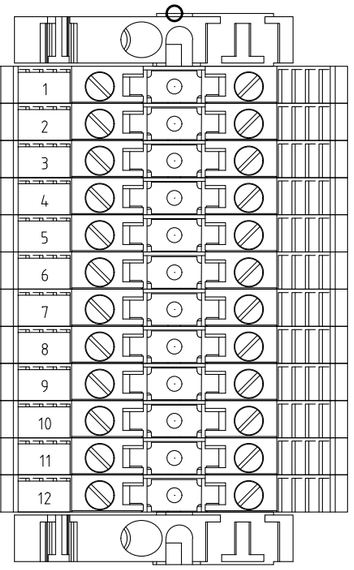
TERMINAL BLOCK [XP]



20U.1	1	20U.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20V.1	2	20V.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20W.1	3	20W.1	Alimentazione acqua alla pista di lavaggio nr.01 - Feeding water to washing lane nr.01
20U.2	4	20U.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20V.2	5	20V.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20W.2	6	20W.2	Alimentazione acqua alla pista di lavaggio nr.02 - Feeding water to washing lane nr.02
20U.3	7	20U.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20V.3	8	20V.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20W.3	9	20W.3	Colonna pista di lavaggio nr.01 - Column of washing lane nr.01
20U.4	10	20U.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
20V.4	11	20V.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
20W.4	12	20W.4	Colonna pista di lavaggio nr.02 - Column of washing lane nr.02
21U.1	13	21U.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21V.1	14	21V.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21W.1	15	21W.1	Sollevatore acqua dal primo serbatoio al secondo - Lift water from first tank to second one
21U.3	16	21U.3	Pompa di lavaggio di ricambio - Spare washing pump
21V.3	17	21V.3	Pompa di lavaggio di ricambio - Spare washing pump
21W.3	18	21W.3	Pompa di lavaggio di ricambio - Spare washing pump
21U.4	19	21U.4	Pompa di lavaggio di ricambio - Spare washing pump
21V.4	20	21V.4	Pompa di lavaggio di ricambio - Spare washing pump
21W.4	21	21W.4	Pompa di lavaggio di ricambio - Spare washing pump

+JB2 - XA

TERMINAL BLOCK [XA]



102L+	1	102L+	Livello controllo pompa P05 - Pump control level P05
I0.0	2	I0.0	Livello controllo pompa P05 - Pump control level P05
102L+	3	102L+	Livello troppo pieno vasca 1 - Overflow tank level 1
I0.1	4	I0.1	Livello troppo pieno vasca 1 - Overflow tank level 1
102L+	5	102L+	Livello basso sicurezza pompe lavaggio - Low safety level washing pumps
I0.2	6	I0.2	Livello basso sicurezza pompe lavaggio - Low safety level washing pumps
102L+	7	102L+	Livello troppo pieno vasca pompe V3 - Overflow level tank pumps V3
I0.3	8	I0.3	Livello troppo pieno vasca pompe V3 - Overflow level tank pumps V3
102L+	9	102L+	Livello carico acqua - Water load level
I0.4	10	I0.4	Livello carico acqua - Water load level
102M	11	102M	Elettrovalvola carico acqua - Water load Valve
401.1	12	401.1	Elettrovalvola carico acqua - Water load Valve

REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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via Borgo Padova, 64
Camposampiero (PD)

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Electrical Drawing

QESLR

MORSETTIERE [XP-XA] - JB2

TERMINAL BLOCKS [XP-XA] - JB2

Sheet 610
Next Sheet 700

D93/A

VIEWS TO NORM ISO - PERFORABLE SPACE

+QESLR

BOTTOM

FRONT

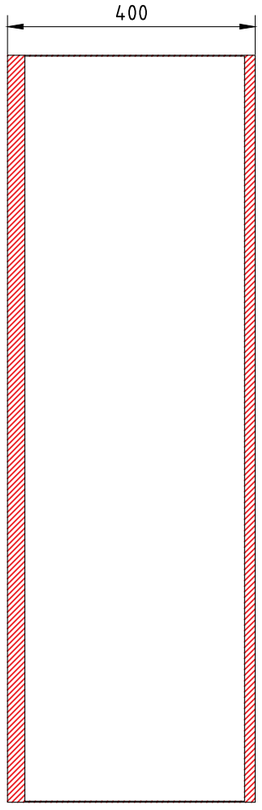
REAR

CLOSED BOTTOM

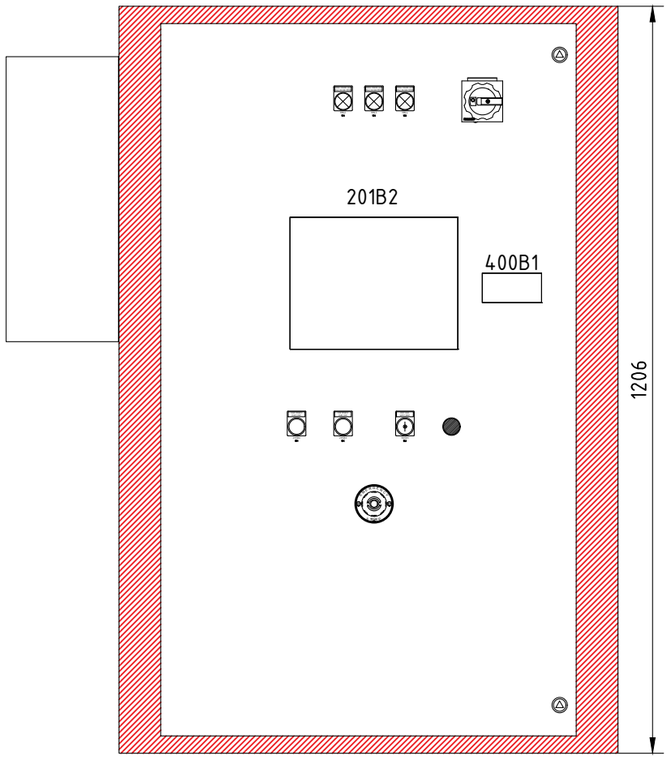
.212HL1
.212HL2

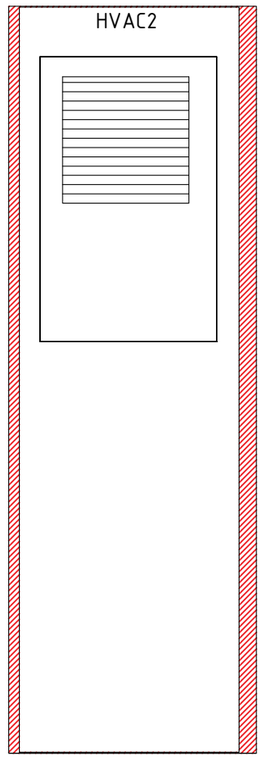
.212HL3
.212HL4

SPACE NOT PERFORABLE

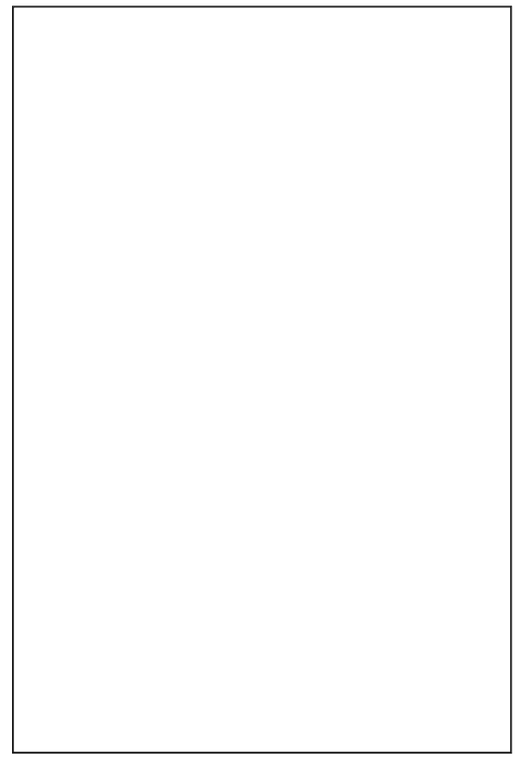


RIGHT SIDE

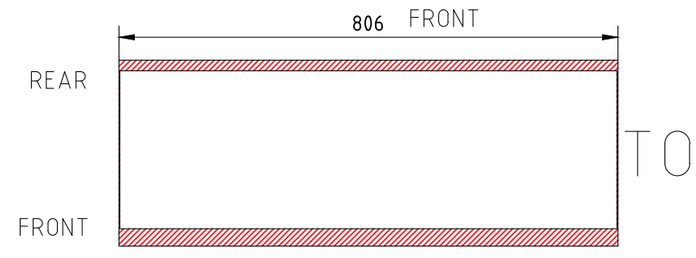




LEFT SIDE



REAR



TOP

DIMENSIONS AND PERFORATIONS TO CUSTOMER'S RESPONSIBILITY

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
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00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
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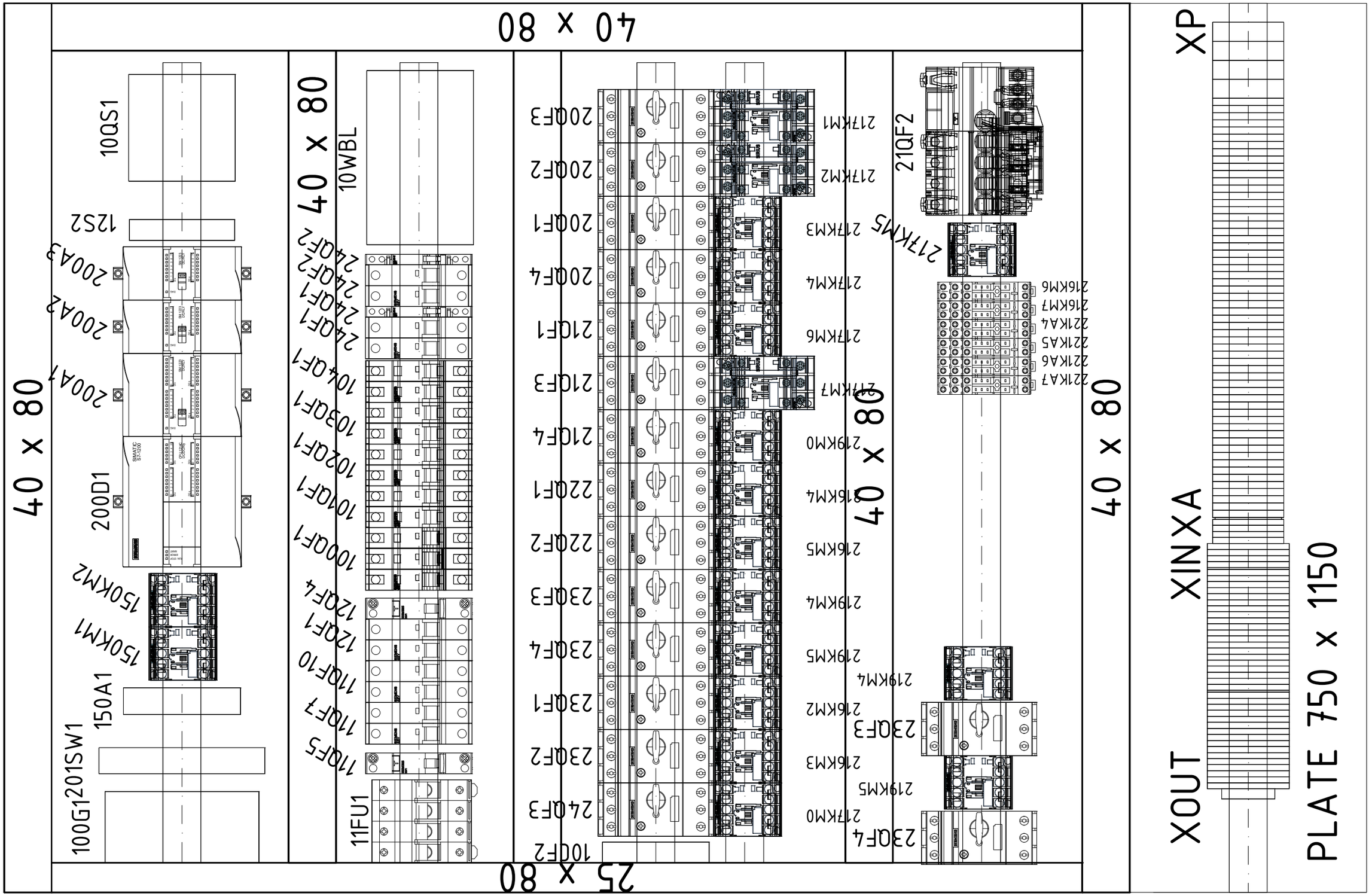
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

LAYOUT QUADRO ELETTRICO
ELECTRICAL BOARD LAYOUT

QESLR

Sheet 700
Next Sheet 701



REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
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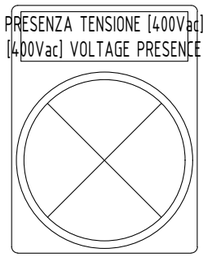
DOCUMENT: Schema Elettrico
Electrical Drawing

LAYOUT QUADRO ELETTRICO
ELECTRICAL BOARD LAYOUT

QESLR

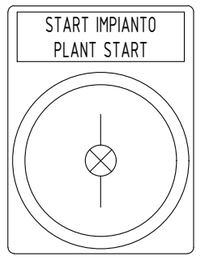
Sheet 701 | Next Sheet 702

11HL2
WH

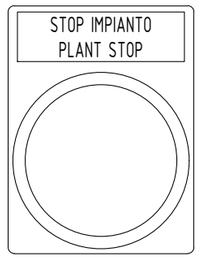


11HL3
WH

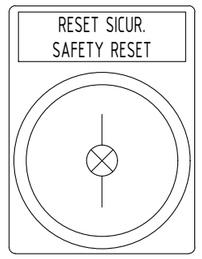
11HL4
WH



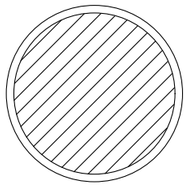
211SH2
WH

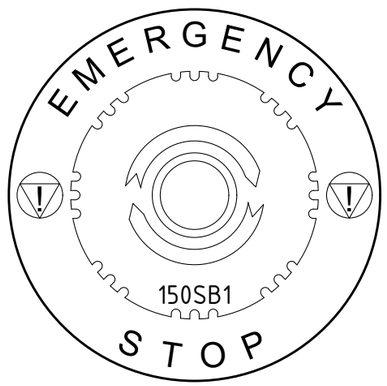


211SB3
BK



150SH1
BU





RD

REV.	MOD. OBJECT	DATE	SIGNAT.
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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
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DRAWN. M.G.
APPR. R.L.

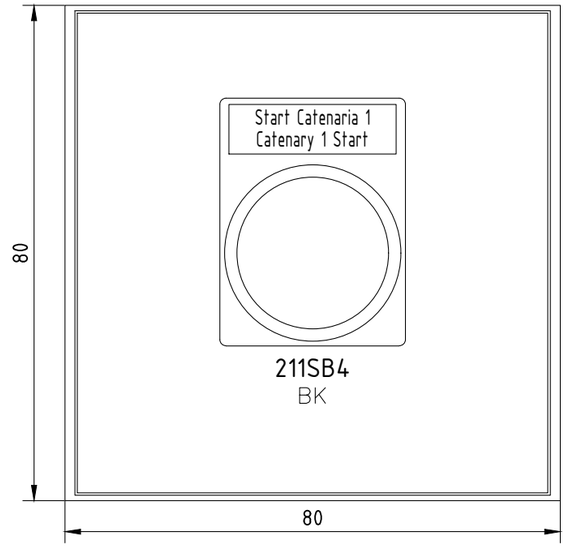
DOCUMENT Schema Elettrico
Electrical Drawing

LAYOUT FRONTEQUADRO
FRONT-PANEL LAYOUT

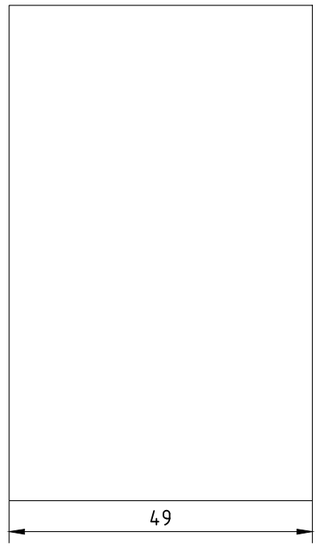
QESLR

Sheet 702
Next Sheet 703

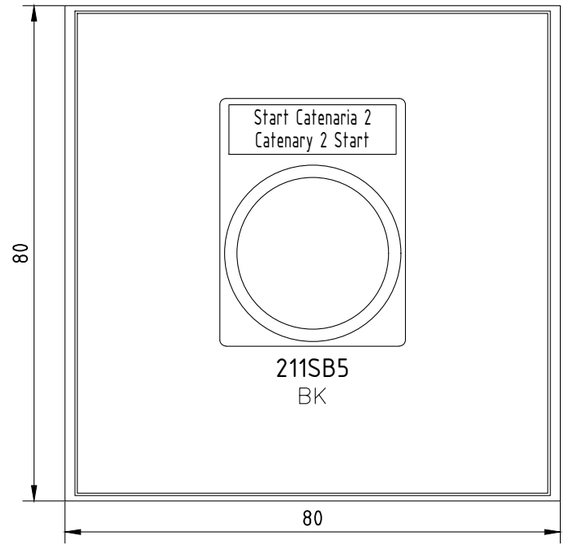
+PB1



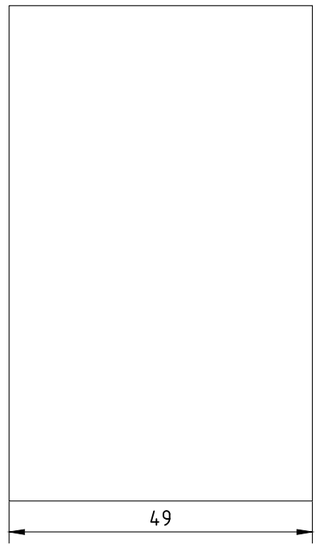
+PB1



+PB2



+PB2



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

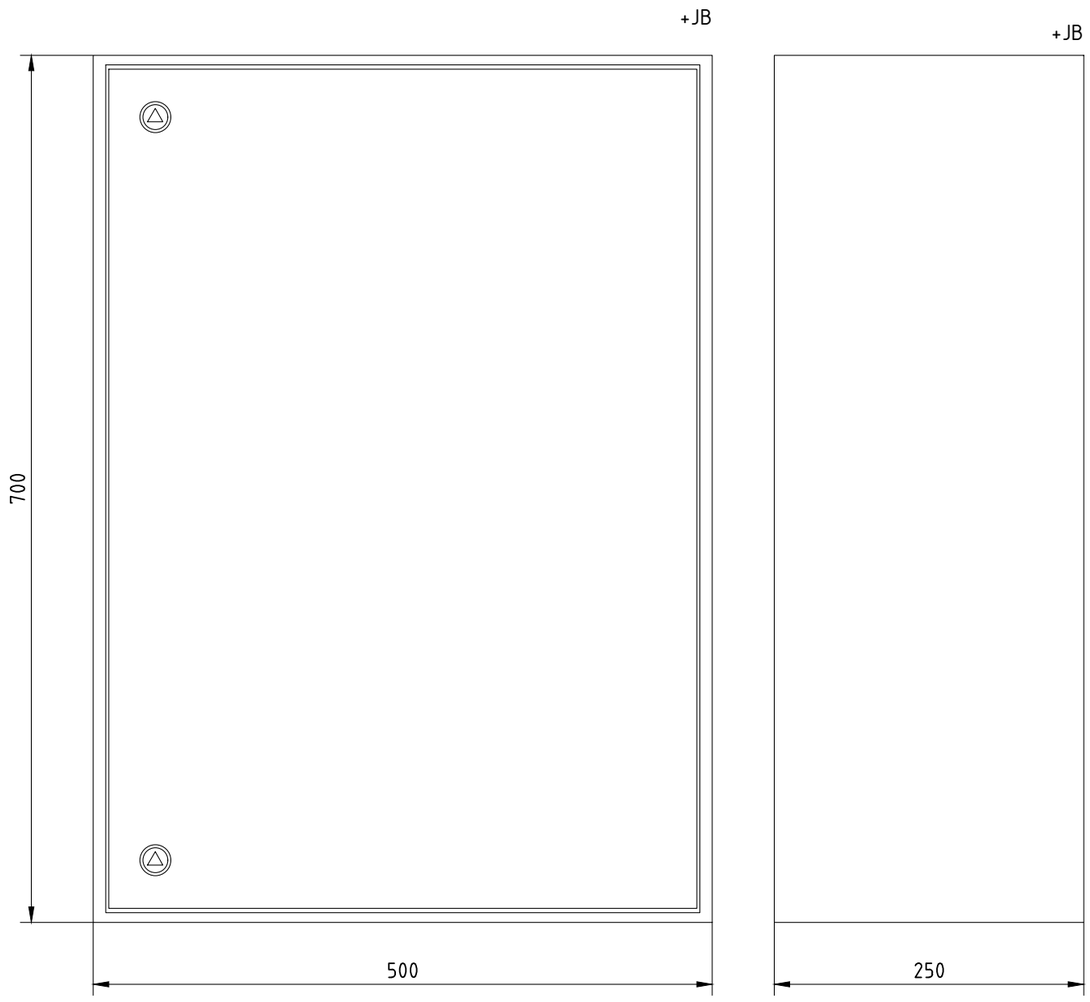
DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

LAYOUT PULSANTIERE
PUSHBUTTONS LAYOUT

QESLR

Sheet 703
Next Sheet 704



REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
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PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM
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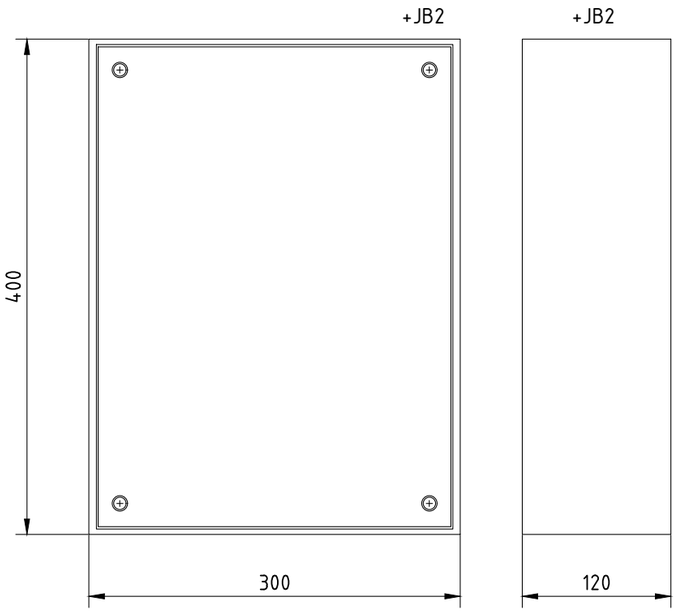
DOCUMENT Schema Elettrico
Electrical Drawing

QESLR

LAYOUT CASSETTA DERIVAZIONE [JB]
JUNCTION BOX LAYOUT [JB]

Sheet 704
Next Sheet 705



03	JUNCTION BOX 2	04.05.23	M.G.	PROJECT ELECTRICAL BOARD WHELL WASHING SYSTEM TECHNIP ENERGIES ITALY	DATE 04.05.2023	DOCUMENT Schema Elettrico Electrical Drawing	QESLR
02	OIL SEPAR. 7-8	06.04.23	M.G.		DOC.Nr.		
01	AS BUILT	20.02.23	M.G.	Clean S.r.l. via Borgo Padova, 64 Camposampiero (PD)	FILE QESLR.dwg	LAYOUT CASSETTA DERIVAZIONE [JB2] *JUNCTION BOX LAYOUT [JB2]*	Sheet 705 / Next Sheet 800
00	FIRST EMISSION	12.12.22	M.G.		DRAWN. M.G.		
REV.	MOD. OBJECT	DATE	SIGNAT.		APPR. R.L.		

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
10CF2	K8DT-PH1CN	Phase sequence and phase loss monitoring	Omron	+QESLR	10	1
10QS1	3LD28140TK53	SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, Iu: 125 A, operating power / at AC-23 A 400 V: 45 kW	Siemens	+QESLR	10	1
10WBL	563830	NVENT ERIFLEX, ERICO Power Distribution Blocks, TD Series	Eriflex	+QESLR	10	1
11FU1	1421002	Fus CH10 gG 2A 500V	Italweber	+QESLR	11	3
	FB01F3N	FB01F3N - FUSE HOLDER 3P+N 10X38	Lovato			1
11HL2	3SU1500-0AA10-0AA0	Holder without module. Plastic	Siemens	+QESLR	11	1
	3SU1401-1BF60-1AA0	White LED module for front plate mounting, 230 V AC. Screw terminals	Siemens			1
	3SU1051-6AA60-0AA0	Indicator light with smooth lens, White	Siemens			1
11HL3	3SU1500-0AA10-0AA0	Holder without module. Plastic	Siemens	+QESLR	11	1
	3SU1401-1BF60-1AA0	White LED module for front plate mounting, 230 V AC. Screw terminals	Siemens			1
	3SU1051-6AA60-0AA0	Indicator light with smooth lens, White	Siemens			1
11HL4	3SU1500-0AA10-0AA0	Holder without module. Plastic	Siemens	+QESLR	11	1
	3SU1401-1BF60-1AA0	White LED module for front plate mounting, 230 V AC. Screw terminals	Siemens			1
	3SU1051-6AA60-0AA0	Indicator light with smooth lens, White	Siemens			1
11QF5	5SV1313-1KK10	RCBO compact, 4.5 kA , 1P+N, type AC, 30 mA, C, 10 A, Un AC: 230 V	Siemens	+QESLR	11	1
11QF7	5SY6202-7	Miniature circuit breaker 400 V 6kA, 2P, C, 2A, D=70 mm	Siemens	+QESLR	11	1
11QF10	5SY6202-7	Miniature circuit breaker 400 V 6kA, 2P, C, 2A, D=70 mm	Siemens	+QESLR	11	1
12QF1	5SY6204-7	Miniature circuit breaker 400 V 6kA, 2P, C, 4A, D=70 mm	Siemens	+QESLR	12	1
12QF4	5SV1313-1KK10	RCBO compact, 4.5 kA , 1P+N, type AC, 30 mA, C, 10 A, Un AC: 230 V	Siemens	+QESLR	12	1
12S2	7T8100002303	Thermostat - Ventilation control (0...+60 °C)	Finder	+QESLR	12	1
20QF1	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	20	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20114AA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity	Siemens			1
20QF2	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	20	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20114AA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity	Siemens			1
20QF3	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	20	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111KA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A screw terminal Standard switching capacity	Siemens			1
20QF4	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	20	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111KA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A screw terminal Standard switching capacity	Siemens			1
21QF1	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	21	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111DA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 A screw terminal Standard switching capacity	Siemens			1
21QF2	A9Q41325	ACTI 9 Vigi iC60, 3P, 25A, 30mA, Type AC	Schneider Electric	+QESLR	21	1
	A9F79406	Circuit breaker iC60N, 4P, C, 6A, 6000A	Schneider Electric			1
21QF3	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	21	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20114AA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity	Siemens			1
21QF4	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	21	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111KA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A screw terminal Standard switching capacity	Siemens			1
22QF1	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	22	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1

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03	JUNCTION BOX 2	04.05.23	M.G.
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00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

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APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

LISTA MATERIALI
MATERIAL LIST

QESLR

Sheet 800 | Next Sheet 801

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
22QF1	3RV20111AA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A screw terminal Standard switching capacity	Siemens	+QESLR	22	1
22QF2	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	22	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111AA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A screw terminal Standard switching capacity	Siemens			1
22QF3	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	22	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20110JA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity	Siemens			1
22QF4	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	22	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20110JA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity	Siemens			1
23QF1	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	23	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111EA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A screw terminal Standard switching capacity	Siemens			1
23QF2	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	23	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20111EA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A screw terminal Standard switching capacity	Siemens			1
23QF3	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	23	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20110JA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity	Siemens			1
23QF4	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	23	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20110JA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity	Siemens			1
24QF1	5SY6202-7	Miniature circuit breaker 400 V 6kA, 2P, C, 2A, D=70 mm	Siemens	+QESLR	24	1
	5ST3010	Auxiliary current switch, 1 NO+1 NC for miniature circuit breaker 5SL, 5SY, 5SP	Siemens			1
24QF2	5SY6202-7	Miniature circuit breaker 400 V 6kA, 2P, C, 2A, D=70 mm	Siemens	+QESLR	24	1
	5ST3010	Auxiliary current switch, 1 NO+1 NC for miniature circuit breaker 5SL, 5SY, 5SP	Siemens			1
24QF3	3RV2901-1E	Auxiliary switch transverse 1 NO+1 NC screw terminal for circuit breaker 3RV2	Siemens	+QESLR	24	1
	3RA29211AA00	Link module for screw terminal electrical and mechanical for 3RV2.1/3RV2.2, and 3RT2.2. AC operation	Siemens			1
	3RV20110KA10	Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 A screw terminal Standard switching capacity	Siemens			1
100G1	2866459	Power supply unit - TRIO-PS/3AC/24DC/10	Phoenix Contact	+QESLR	100	1
100QF1	5SY63027	Three phase aut. magneto-thermal switch	Siemens	+QESLR	100	1
101QF1	5SY62027	Two-phase aut. magneto-thermal switch	Siemens	+QESLR	101	1
101XPL	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		2
101XPM	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		2
102QF1	5SY65027	Two-phase aut. magneto-thermal Switch, single-pole protected	Siemens	+QESLR	102	1
102XPL	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		2
102XPM	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		1
103QF1	5SY65027	Two-phase aut. magneto-thermal Switch, single-pole protected	Siemens	+QESLR	103	1
103XPL	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		2
103XPM	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		1
104QF1	5SY65047	Two-phase aut. magneto-thermal Switch, single-pole protected	Siemens	+QESLR	104	1
110XPL	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		1
110XPM	3211797	PT 4-QUATTRO - Feed-through terminal block, Push-in connection, section 4 - Grey	Phoenix Contact	+QESLR		1
150A1	CS AR-08V024	Safety module, Category 4, 2NO, 24 VAC	Pizzato Elettrica	+QESLR	150	1
150KM1	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	150	1

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
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00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

LISTA MATERIALI
MATERIAL LIST

QESLR

Sheet 801 | Next Sheet 802

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
150KM2	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	150	1
150SB1	3SU1000-1HB20-0AA0	EMERGENCY STOP mushroom pushbutton, rotate-to-unlatch, 40 mm diameter, 2 positions	Siemens	+QESLR	150	1
	3SU1500-0AA10-0AA0	Holder without module. Plastic	Siemens			1
	3SU1400-1AA10-1CA0	Contact module for front plate mounting. 1 NC, screw terminals	Siemens			1
150SH1	3SU1031-0AB50-0AA0	Illuminated pushbutton with flat button, Standard, momentary contact, Blue	Siemens	+QESLR	150	1
	3SU1500-0AA10-0AA0	Holder without module. Plastic	Siemens			1
	3SU1400-1AA10-1BA0	Contact module for front plate mounting. 1 NO, screw terminals	Siemens			2
	3SU1401-1BB50-1AA0	Blue LED module for front plate mounting, 24 V AC/DC. Screw terminals	Siemens			1
200A1	6ES7223-1PL32-0XB0	Digital I/O, 16 DI, 24V DC / 16 DO, relay	Siemens	+QESLR	200	1
200A2	6ES7223-1PH32-0XB0	Digital I/O, 8 DI, 24V DC / 8 DO, relay	Siemens	+QESLR	200	1
200A3	6ES7223-1PH32-0XB0	Digital I/O, 8 DI, 24V DC / 8 DO, relay	Siemens	+QESLR	200	1
200D1	6ES7214-1HG40-0XB0	CPU 1214C (14 DI 24V DC, 10 DO Relay , 2 AI), PS 24V DC	Siemens	+QESLR	200	1
201B2	MT8102iP	HMI WITH 10.1" TFT DISPLAY	Weintek	+QESLR	201	1
201SW1	1085256	Industrial Ethernet Switch - FL SWITCH 1008N	Phoenix Contact	+QESLR	201	1
211SB3	ZB4BA2	black flush pushbutton head Ø22 spring return unmarked	Schneider Electric	+QESLR	211	1
	ZB4BZ009	metal fixing collar pillar for electrical block	Schneider Electric			1
	ZBE101	single contact block for head Ø22 1NO silver alloy screw clamp terminal	Schneider Electric			1
211SH2	ZB4BW313	white flush illuminated pushbutton head Ø22 spring return for integral LED	Schneider Electric	+QESLR	211	1
212HL1	XVUC23	Illuminated LED unit for modular tower lights, green, Ø60, steady, IP65, 24 V AC/DC	Schneider Electric	+QESLR	212	1
212HL01	XVUZ02	Fixing plate with 100 mm aluminium pole for modular tower lights, black, Ø60	Schneider Electric	+QESLR	212	1
	XVUC21B	Base unit with top cover for modular tower lights, black, Ø60, 24 V AC/DC	Schneider Electric			1
212HL2	XVUC24	Illuminated LED unit for modular tower lights, red, Ø60, steady, IP65, 24 V AC/DC	Schneider Electric	+QESLR	212	1
212HL02	XVUZ02	Fixing plate with 100 mm aluminium pole for modular tower lights, black, Ø60	Schneider Electric	+QESLR	212	1
	XVUC21B	Base unit with top cover for modular tower lights, black, Ø60, 24 V AC/DC	Schneider Electric			1
212HL3	XVUC23	Illuminated LED unit for modular tower lights, green, Ø60, steady, IP65, 24 V AC/DC	Schneider Electric	+QESLR	212	1
212HL4	XVUC24	Illuminated LED unit for modular tower lights, red, Ø60, steady, IP65, 24 V AC/DC	Schneider Electric	+QESLR	212	1
216KM0	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM1	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM2	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM3	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM4	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM5	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	216	1
216KM6	405290240000	Miniature PCB relay	Finder	+QESLR	216	1
	9505SMA	Clamp terminal socket	Finder			1
216KM7	405290240000	Miniature PCB relay	Finder	+QESLR	216	1
	9505SMA	Clamp terminal socket	Finder			1
217KM0	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	217	1
217KM1	3RT20261BB40	power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal	Siemens	+QESLR	217	1
217KM2	3RT20261BB40	power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal	Siemens	+QESLR	217	1
217KM3	3RT20181BB41	power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	217	1
217KM4	3RT20181BB41	power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	217	1
217KM5	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	217	1
217KM6	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	217	1
217KM7	3RT20261BB40	power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal	Siemens	+QESLR	217	1
219KM0	3RT20181BB41	power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	219	1

REV.	MOD. OBJECT	DATE	SIGNAT.
03	JUNCTION BOX 2	04.05.23	M.G.
02	OIL SEPAR. 7-8	06.04.23	M.G.
01	AS BUILT	20.02.23	M.G.
00	FIRST EMISSION	12.12.22	M.G.

PROJECT: ELECTRICAL BOARD WHELL WASHING SYSTEM
TECHNIP ENERGIES ITALY

Clean S.r.l.
via Borgo Padova, 64
Camposampiero (PD)

DATE 04.05.2023
DOC.Nr.
FILE QESLR.dwg
DRAWN. M.G.
APPR. R.L.

DOCUMENT: Schema Elettrico
Electrical Drawing

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MATERIAL LIST

QESLR

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Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
219KM4	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	219	1
219KM5	3RT20151BB41	power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal	Siemens	+QESLR	219	1
221KA4	9505SMA	Clamp terminal socket	Finder	+QESLR	221	1
	405290240000	Miniature PCB relay	Finder			1
	9902902499	LED + diode module (standard polarity)	Finder			1
221KA5	9505SMA	Clamp terminal socket	Finder	+QESLR	221	1
	405290240000	Miniature PCB relay	Finder			1
	9902902499	LED + diode module (standard polarity)	Finder			1
221KA6	9505SMA	Clamp terminal socket	Finder	+QESLR	221	1
	405290240000	Miniature PCB relay	Finder			1
	9902902499	LED + diode module (standard polarity)	Finder			1
221KA7	9505SMA	Clamp terminal socket	Finder	+QESLR	221	1
	405290240000	Miniature PCB relay	Finder			1
	9902902499	LED + diode module (standard polarity)	Finder			1
400B1	SPR040QM0000	Kontrol 40 - pH/Redox and Conductivity Meter Instruments	Seko	+QESLR	430	1
+QESLR	D93/A	Cabinet 1200x800x400 Solid door, internal plate, stainless steel flange	Zanardo	+QESLR	700	1
HVAC2	EGO04BT1B	Texa EGO 380w 230v 50-60hz IP54 Indoor Cooling Units, RAL 7035, Side Or Door Mounted	Texa Industries	+QESLR	12	1
PLATE 750 x 1150	D93/A	Cabinet 1200x800x400 Solid door, internal plate, stainless steel flange	Zanardo	+QESLR	701	1
XA	1020000000	Feed-through terminal WDU 2.5	Weidmuller	+QESLR		4
	1021500000	WDK 2.5 Feed-through terminal, Double-tier terminal, Screw connection, 2.5 mm^2, 400 V, 24 A, dark beige	Weidmuller			4
	0383560000	End bracketTS 35 EW 35	Weidmuller			1
	1059100000	End plate / Partition plate WAP	Weidmuller			1
XIN	1021500000	WDK 2.5 Feed-through terminal, Double-tier terminal, Screw connection, 2.5 mm^2, 400 V, 24 A, dark beige	Weidmuller	+QESLR		18
	0383560000	End bracketTS 35 EW 35	Weidmuller			1
	1059100000	End plate / Partition plate WAP	Weidmuller			1
XOUT	1021500000	WDK 2.5 Feed-through terminal, Double-tier terminal, Screw connection, 2.5 mm^2, 400 V, 24 A, dark beige	Weidmuller	+QESLR		16
	0383560000	End bracketTS 35 EW 35	Weidmuller			1
	1050000000	End plate / Partition plate WAP 2.5-10	Weidmuller			1
XP	1010100000	Modular PE terminal WPE 4	Weidmuller	+QESLR		3
	1020100000	Feed-through terminal WDU 4	Weidmuller			61
	1020500000	Feed-through terminal WDU 35	Weidmuller			4
	0383560000	End bracketTS 35 EW 35	Weidmuller			1
	1050020000	End plate / Partition plate WAP 2.5-10 YE	Weidmuller			1
XPE	3214082	PTU 35/4X6/6X2,5-FE - Potential collective terminal, Push-in connection - Black-Yellow	Phoenix Contact	+QESLR		1

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LISTA MATERIALI
MATERIAL LIST

QESLR

Sheet 803
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Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
211SB4	ZB4BA2	black flush pushbutton head Ø22 spring return unmarked	Schneider Electric	+PB1	211	1
	ZBPA	transparent boot for circular flush pushbutton Ø22	Schneider Electric			1
	ZBE101	SINGLE CONTACT BLOCK FOR HEAD 022 1NO SCREW CLAMP TERMINAL	Schneider Electric			1
	ZB4BZ009	metal fixing collar pillar for electrical block	Schneider Electric			1
PB1	XAPD1201	Harmony XAP, XB2 SL, Empty control station, zinc alloy, grey, M20, 1 cut-out 22mm, 80 x 80 x 51,5, UL cULus	Schneider Electric	+PB1	211	1

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
211SB5	ZB4BA2	black flush pushbutton head Ø22 spring return unmarked	Schneider Electric	+PB2	211	1
	ZBPA	transparent boot for circular flush pushbutton Ø22	Schneider Electric			1
	ZBE101	SINGLE CONTACT BLOCK FOR HEAD 022 1NO SCREW CLAMP TERMINAL	Schneider Electric			1
	ZB4BZ009	metal fixing collar pillar for electrical block	Schneider Electric			1
PB2	XAPD1201	Harmony XAP, XB2 SL, Empty control station, zinc alloy, grey, M20, 1 cut-out 22mm, 80 x 80 x 51,5, UL cULus	Schneider Electric	+PB2	211	1

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
+JB	FQ 50 70 25	Stainless steel case with single port IP66 - FQ - dim. 500x700x250	Flextec	+JB	704	1
XJB	039034	VIKING3-Power Terminal Block x bar 240mmq	Legrand	+JB		3
	039033	VIKING3-Power Terminal Block x bar 120mmq	Legrand			2
	039478	VIKING3-Acc. power separator p 34/46	Legrand			5
	BT005	BTU End bracket	Cabur			2

Nome/Item	Tipo/Type	Descrizione EN	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
+JB2	SCA03004012	Junction Box 300x400x120 mm AISI304 - IP66	Compex	+JB2	705	1
XA	1020100000	Feed-through terminal WDU 4	Weidmuller	+JB2		12
	0383560000	End bracketTS 35 EW 35	Weidmuller			2
XP	1020100000	Feed-through terminal WDU 4	Weidmuller	+JB2		21
	0383560000	End bracketTS 35 EW 35	Weidmuller			2

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Sheet 804
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